Synology®

# Disk Station

## User's Guide

**Applied Model:**

DS109j, DS109, DS109+, DS209j, DS209, DS209+, DS209+II, DS409, DS409slim, DS409+, RS409, RS409+, RS409RP+, DS509+

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# About this User’s Guide

This user's guide covers all major functions of Synology NAS Server (“Synology Disk Station”). Some of the functions may only be available on specific models. Please refer to product specification for further details.

# Getting to know your Synology Disk Station

## Introduction

Congratulations on your purchase of *Synology Disk Station*. *Synology Disk Station* is specially designed for the following purposes:

### Storing and Sharing Files via the Internet

Windows users, Mac users, and Linux users can easily share files within the Intranet or through the Internet. Unicode language support makes sharing files in different languages from *Synology Disk Station* simple.

### Sharing Storage Capacity as an iSCSI Target

You can designate portion of your *Synology Disk Station* volume space to be an iSCSI Target, which will allow the iSCSI initiator to access the space like a local disk. Go to “Storage > iSCSI Target” and click create to set up an iSCSI target.

### PC Data and Server Data Backup

*Synology Disk Station* provides various backup solutions to back up PC data to *Synology Disk Station*, back up *Synology Disk Station* data to an external hard drive, another *Synology Disk Station,* or an rsync-compatible server.

### Transferring Data via FTP

*Synology Disk Station* provides FTP service with bandwidth restriction and anonymous login. To transfer data safely, “FTP over SSL/TLS” and uninvited IP auto-black are also available.

### Managing Files through Web Browsers

File Station 2 makes it possible for users to manage their files on *Synology Disk Station* easily through a web interface with Windows style file operations. You can also access the files stored on *Synology Disk Station* with a mobile device.

### Sharing Photos, Videos, and Blogs with Photo Station 3

“Photo Station 3” gives you the freedom to share photos and videos over the Internet without complicated upload steps. Album control ensures the content is shared with the right persons. Visitors can leave comments for your photos. Furthermore, a brand new blogging system is integrated for you to easily share your life and thoughts over the Internet.

## Enjoying Entertainment Content on the Server

“Download Station” allows you to download files from the Internet through BitTorrent, FTP, HTTP, eMule and NZB to *Synology Disk Station*. Moreover, if you have an UPnP DMA connected in the LAN, you can share the multimedia files on *Synology Disk Station*. If you just want to share and play mp3 files stored on *Synology Disk Station*, you can enable “iTunes Service”, and enjoy the music through any iTunes clients on LAN.

The built-in “Copy” button on the device allows instant copy of photos from the camera to *Synology Disk Station*.

## Enjoying Music instantly anytime

When a pair of USB speakers is connected to the *Synology Disk Station*, “Audio Station” allows users to listen to music stored on the *Synology Disk Station*, from a connected iPod, or even stream Internet Radio stations. In addition, users can stream music from the *Synology Disk Station* with a web browser over the Internet.

## Hosting Websites

The Virtual Host feature allows you to host up to 30 websites using “Web Station”, with PHP and MySQL supported.

## Video Recording with IP Cameras

"Surveillance Station 3" allows you to manage, view, and record videos from multiple* IP cameras over the network. By accessing the web-based management interface of Surveillance Station 3, you can watch the real-time image the camera is monitoring, and record videos continuously, in motion-detection mode, or in alarm-recording mode.

## USB Printer Server

You can share up to 2 USB 2.0 Printers through the LAN.

* Supported on specific models only. Please refer to the product Specification table.

# Specification

Note: For the most recent product specification, please visit www.synology.com

## 1-bay Models

| Item | DS109j | DS109 | DS109+ |
|---|---|---|---|
| Internal HDD | 3.5 SATA (II) x 1 | 3.5 SATA (II) x 1 | 3.5 SATA (II) x 1 |
| Max. Capacity | 1TB | 1.5TB | 1.5TB |
| Hot Swappable HDD | No | No | No |
| External HDD Interface | USB x 3 | USB x 3<br>eSATA x 1 | USB x 3<br>eSATA x 1 |
| LAN Port | Gigabit X 1 | Gigabit X 1 | Gigabit X 1 |
| USBCopy | Yes | Yes | Yes |
| System Fan | X 1 (50mmX50mm) | X 1 (50mmX50mm) | X 1 (50mmX50mm) |
| Size (HxWxD) (mm) | 160 X 63 X 218 | 160 X 63 X 218 | 160 X 63 X 218 |
| Weight (Kg) | 0.81 | 0.81 | 0.81 |
| Supported Clients | • Windows 2000 Onward<br>• Mac OS X 10.3 Onward<br>• Linux | | |
| Max. User Accounts | 128 | 1024 | 2048 |
| Max. Group Accounts | 64 | 128 | 256 |
| Max. Shared Folder | 128 | 256 | 256 |
| Max. Concurrent Connections | 32 | 64 | 256 |
| Max. Supported IP Cameras | 1 | 8 | 12 |
| File System | • EXT3<br>• FAT (External Disk, Read/Write)<br>• NTFS (External Disk, Read) | • EXT3<br>• FAT (External Disk, Read/Write)<br>• NTFS (External Disk, Read/Write) | |
| Volume Type | Basic | | |
| Agency Certifications | • FCC Class B • CE Class B<br>• BSMI Class B | | |
| HDD Hibernation | Yes | Yes | Yes |
| Event Notification | Yes | Yes | Yes |
| NTP | Yes | Yes | Yes |
| FTP over SSL/TLS | Yes | Yes | Yes |
| HTTPS Connection | Yes | Yes | Yes |
| Windows ADS Domain | No | Yes | Yes |
| iSCSI | No | Yes | Yes |
| Scheduled Power On/Off | Yes | Yes | Yes |
| Language Localization | • English • Deutsch • Français • Italiano • Español • Dansk<br>• Norsk • Svensk • Nederlands • Русский • Polski • Magyar<br>• Português do Brasil • Português Europeu • Türkçe • Český<br>• 日本語 • 한국어 • 繁體中文 • 简体中文 | | |
| Power Consumption And Environment Requirements | • Line voltage: 100V to 240V AC •<br>• Frequency: 50 / 60Hz<br>• Operating Temperature: 40 to 95° F (5 to 35° C)<br>• Storage Temperature: 15 to 155° F (-10 to 70° C)<br>• Relative Humidity: 5% to 95% RH | | |

| Item | DS109j | DS109 | DS109+ |
|---|---|---|---|
| | • Maximum Operating Altitude: 10,000 feet | | |

## 2-bay Models

| Item | DS209j | DS209 | DS209+ | DS209+II |
|---|---|---|---|---|
| Internal HDD | 3.5 SATA (II) x 2 | 3.5 SATA (II) x 2 | 3.5 SATA (II) x 2 | 3.5 SATA (II) x 2 |
| Max. Capacity | 1TB | 1.5TB | 1.5TB | 1.5TB |
| Hot Swappable HDD | No | No | No | No |
| External HDD Interface | USB x 3 | USB x 3 | USB x 3<br>eSATA x 1 | USB x 3<br>eSATA x 1 |
| LAN Port | Gigabit X 1 | Gigabit X 1 | Gigabit X 1 | Gigabit X1 |
| USBCopy | Yes | Yes | Yes | Yes |
| System Fan | X 1 (70mmX70mm) | X 1 (70mmX70mm) | X 1 (70mmX70mm) | X 1 (70mmX70mm) |
| Size (HxWxD) (mm) | 161 X 88 X 218 | 161 X 88 X 218 | 161 X 88 X 218 | 161 X 88 X 218 |
| Weight (Kg) | 0.98 | 0.98 | 0.98 | 0.98 |
| Supported Clients | • Windows 2000 Onward<br>• Mac OS X 10.3 Onward<br>• Linux | | | |
| Max. User Accounts | 128 | 1024 | 2048 | 2048 |
| Max. Group Accounts | 64 | 128 | 256 | 256 |
| Max. Shared Folder | 128 | 256 | 256 | 256 |
| Max. Concurrent Connections | 32 | 128 | 256 | 256 |
| Max. Supported IP Cameras | 1 | 8 | 10 | 12 |
| File System | • EXT3<br>• FAT (External Disk, Read/Write)<br>• NTFS (External Disk, Read/Write) | | | |
| Volume Type | • Basic • JBOD • RAID 0 • RAID 1 | | | |
| Agency Certifications | • FCC Class B • CE Class B<br>• BSMI Class B | | | |
| HDD Hibernation | Yes | Yes | Yes | Yes |
| Event Notification | Yes | Yes | Yes | Yes |
| NTP | Yes | Yes | Yes | Yes |
| FTP over SSL/TLS | Yes | Yes | Yes | Yes |
| HTTPS Connection | Yes | Yes | Yes | Yes |
| Windows ADS Domain | No | Yes | Yes | Yes |
| iSCSI | Yes | Yes | Yes | Yes |
| Scheduled Power On/Off | Yes | Yes | Yes | Yes |
| Language Localization | • English • Deutsch • Français • Italiano • Español • Dansk<br>• Norsk • Svensk • Nederlands • Русский • Polski • Magyar<br>• Português do Brasil • Português Europeu • Türkçe • Český<br>• 日本語 • 한국어 • 繁體中文 • 简体中文 | | | |
| Power Consumption And Environment Requirements | • Line voltage: 100V to 240V AC<br>• Frequency: 50 / 60Hz<br>• Operating Temperature: 40 to 95° F (5 to 35° C)<br>• Storage Temperature: 15 to 155° F (-10 to 70° C)<br>• Relative Humidity: 5% to 95% RH<br>• Maximum Operating Altitude: 10,000 feet | | | |

## 4-bay Models

| Item | DS409slim | DS409 | DS409+ | RS409 | RS409+ | RS409RP+ |
|---|---|---|---|---|---|---|
| Internal HDD | 2.5 SATA (II) x 4 | 3.5 SATA (II) x 4 | 3.5 SATA (II) x 4 | 3.5 SATA (II) x 4 | 3.5 SATA (II) x 4 | 3.5 SATA (II) x 4 |
| Max. Capacity | 500GB | 1.5TB | 1.5TB | 1.5TB | 1.5TB | 1.5TB |
| Hot Swappable HDD | No | No | No | Yes | Yes | Yes |
| External HDD Interface | USB x 2<br>eSATA x 1 | USB x 2<br>eSATA x 1 | USB x 2<br>eSATA x 1 | USB x 2 eSATA<br>x 1 | USB x 2 eSATA<br>x 1 | USB x 2 eSATA<br>x 1 |
| LAN Port | Gigabit X 1 | Gigabit X 1 | Gigabit X 1 | Gigabit X 2 | Gigabit X2 | Gigabit X2 |
| USBCopy | Yes | No | No | No | No | No |
| System Fan | X 1<br>(60mmX60mm) | X 2<br>(80mmX80mm) | X 2<br>(80mmX80mm) | X 3<br>(40mmX40mm) | X 3<br>(40mmX40mm) | X 4<br>(40mmX40mm) |
| Power Fan | No | No | No | X 1<br>(40mmX40mm) | X 1<br>(40mmX40mm) | X 1<br>(40mmX40mm) |
| Size (HxWxD) (mm) | 120 X 105 X<br>142 | 168 X 184 X<br>230 | 168 X 184 X<br>230 | 44 X 430.5 X<br>457.5 | 44 X 430.5 X<br>457.5 | 44 X 430.5 X<br>457.5 |
| Weight (Kg) | 0.66 | 2.23 | 2.23 | 7.1 | 7.1 | 9.68 |
| Supported Clients | • Windows 2000 Onward<br>• Mac OS X 10.3 Onward<br>• Linux | | | | | |
| Max. User Accounts | 1024 | 2048 | 2,048 | 2,048 | 2,048 | 2,048 |
| Max. Group Accounts | 128 | 256 | 256 | 256 | 256 | 256 |
| Max. Shared Folder | 256 | 256 | 256 | 256 | 256 | 256 |
| Max. Concurrent Connections | 64 | 128 | 256 | 128 | 512 | 512 |
| Max. Supported IP Cameras | 8 | 8 | 12 | 8 | 12 | 12 |
| File System | • EXT3<br>• FAT (External Disk, Read/Write)<br>• NTFS (External Disk, Read/Write) | | | | | |
| Volume Type | • Basic • JBOD • RAID 0 • RAID 1 • RAID 5 • RAID 5+Spare • RAID 6 | | | | | |
| Agency Certifications | • FCC Class B • CE Class B<br>• BSMI Class B | | | • FCC Class A • CE Class A | | |
| HDD Hibernation | Yes | Yes | Yes | Yes | Yes | Yes |
| Event Notification | Yes | Yes | Yes | Yes | Yes | Yes |
| NTP | Yes | Yes | Yes | Yes | Yes | Yes |
| FTP over SSL/TLS | Yes | Yes | Yes | Yes | Yes | Yes |
| HTTPS Connection | Yes | Yes | Yes | Yes | Yes | Yes |
| Windows ADS Domain | Yes | Yes | Yes | Yes | Yes | Yes |
| iSCSI | Yes | Yes | Yes | Yes | Yes | Yes |
| Scheduled Power On/Off | Yes | Yes | Yes | Yes | Yes | Yes |
| Language Localization | • English • Deutsch • Français • Italiano • Español • Dansk<br>• Norsk • Svensk • Nederlands • Русский • Polski • Magyar<br>• Português do Brasil • Português Europeu • Türkçe • Český<br>• 日本語 • 한국어 • 繁體中文 • 简体中文 | | | | | |
| Power Consumption And Environment | • Line voltage: 100V to 240V AC<br>• Frequency: 50 / 60Hz<br>• Operating Temperature: 40 to 95° F (5 to 35° C) | | | | | |

| Item | DS409slim | DS409 | DS409+ | RS409 | RS409+ | RS409RP+ |
|---|---|---|---|---|---|---|
| Requirements | • Storage Temperature: 15 to 155° F (-10 to 70° C)<br>• Relative Humidity: 5% to 95% RH<br>• Maximum Operating Altitude: 10,000 feet | | | | | |

## 5-bay Models

| Item | DS509+ |
|---|---|
| Internal HDD | 3.5 SATA (II) x 5 |
| Max. Capacity | 1.5TB |
| Hot Swappable HDD | Yes |
| External HDD Interface | USB x 2<br>eSATA x 1 |
| LAN Port | Gigabit X 2 |
| USBCopy | No |
| System Fan | X 2(80mmX80mm) |
| Power Fan | X 1(40mmX40mm) |
| Size (HxWxD) (mm) | 177 X 203 X 242 |
| Weight (Kg) | 4.75 |
| Supported Clients | • Windows 2000 Onward<br>• Mac OS X 10.3 Onward<br>• Linux |
| Max. User Accounts | 2,048 |
| Max. Group Accounts | 256 |
| Max. Shared Folder | 256 |
| Max. Concurrent Connections | 512 |
| Max. Supported IP Cameras | 12 |
| File System | • EXT3<br>• FAT (External Disk, Read/Write)<br>• NTFS (External Disk, Read/Write) |
| Volume Type | • Basic • JBOD • RAID 0 • RAID 1<br>• RAID 5 • RAID 5+Spare • RAID 6 |
| Agency Certifications | • FCC Class B • CE Class B • BSMI Class B |
| HDD Hibernation | Yes |
| Event Notification | Yes |
| NTP | Yes |
| FTP over SSL/TLS | Yes |
| HTTPS Connection | Yes |
| Windows ADS Domain | Yes |
| iSCSI | Yes |
| Scheduled Power On/Off | Yes |
| Language Localization | • English • Deutsch • Français • Italiano • Español • Dansk<br>• Norsk • Svensk • Nederlands • Русский • Polski • Magyar<br>• Português do Brasil • Português Europeu • Türkçe • Český<br>• 日本語 • 한국어 • 繁體中文 • 简体中文 |
| Power Consumption<br>And<br>Environment Requirements | • Line voltage: 100V to 240V AC<br>• Frequency: 50 / 60Hz<br>• Operating Temperature: 40 to 95° F (5 to 35° C)<br>• Storage Temperature: 15 to 155° F (-10 to 70° C)<br>• Relative Humidity: 5% to 95% RH<br>• Maximum Operating Altitude: 10,000 feet |

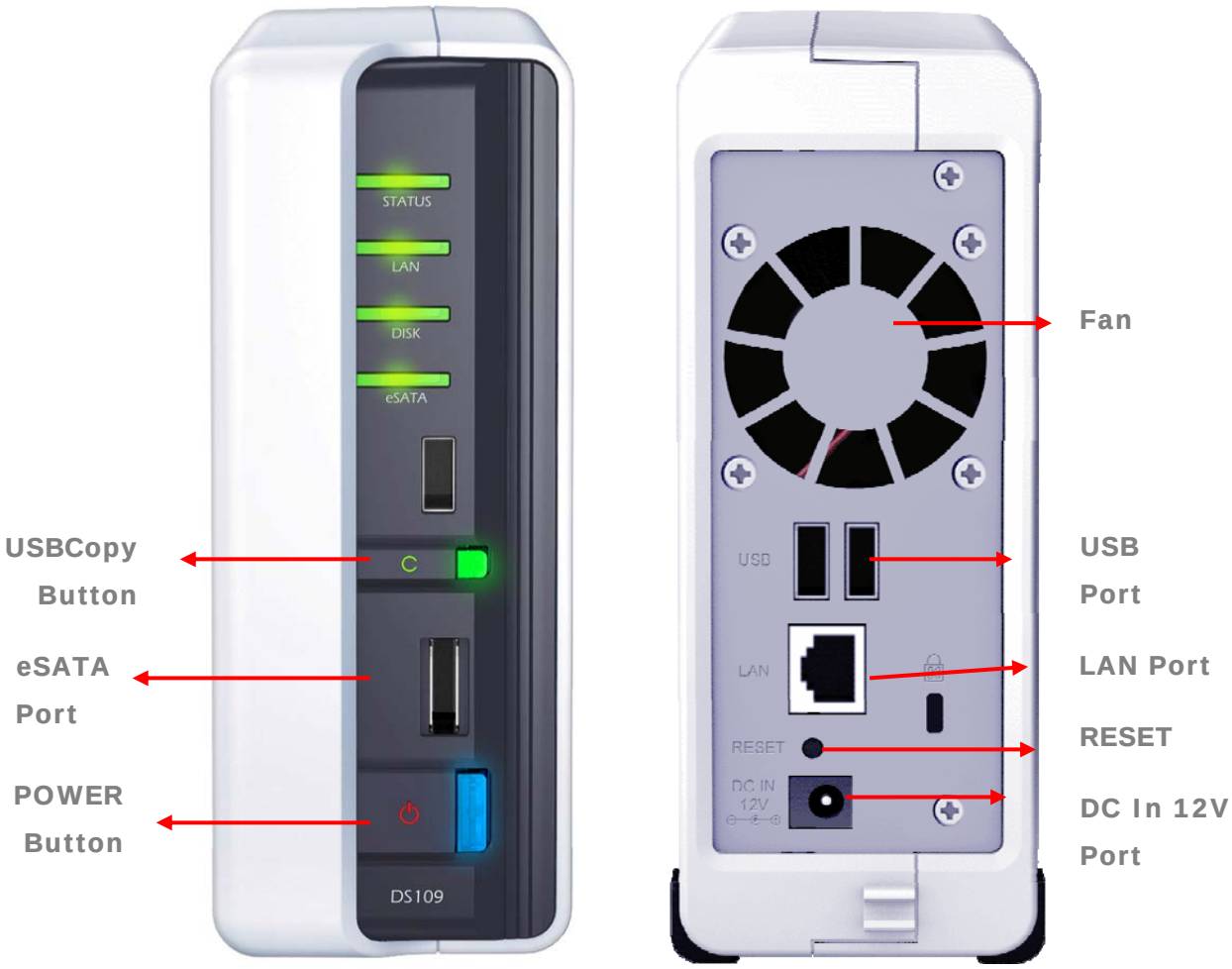
# Limitations

1. Each *Synology Disk Station* supports up to 2 USB printers.
2. USBCopy function only supports USB disks with FAT32 file system.
3. Some digital cameras are defined as a Still Image Device, such as Canon. For such devices, *Synology Disk Station* only supports USB Copy function (No USB share function).
4. For Mac users, *Synology Disk Station* supports only USB printers with PostScript.

# Appearance

## 1-bay & 2-bay Disk Station

*Front View* *Rear View*



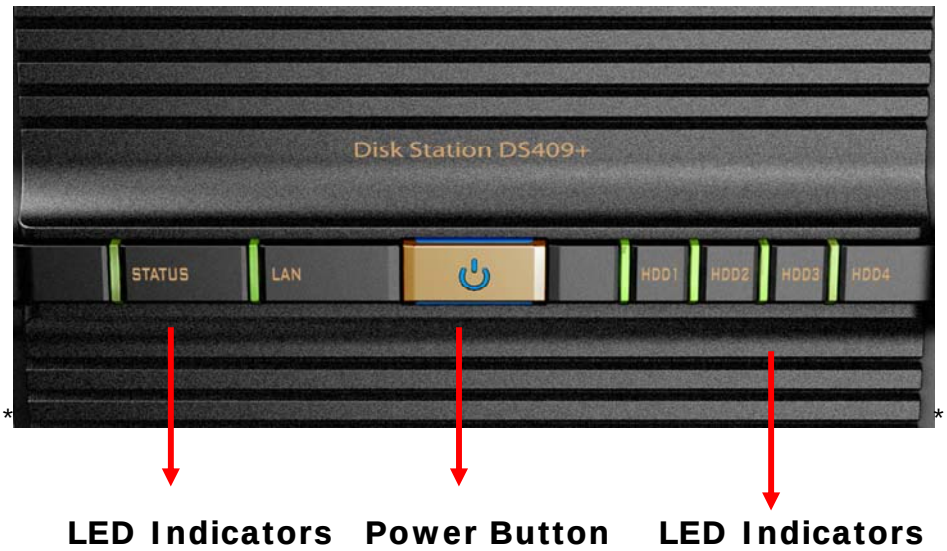

* *

| Article Name | Location | Description |
|---|---|---|
| Power Button | Front Panel | The Power Button is used to turn the *Synology Disk Station* on or off.<br>To turn off *Synology Disk Station*, press the Power Button and hold it until you hear a "beep" sound and the Power LED starts blinking. |
| COPY Button | Front Panel | The COPY Button lights up when you connect a USB Device (for example: digital camera, USB flash disk). Pressing the button will copy the data from the connected USB device to the *Synology Disk Station*'s internal HDD. |
| USB Port | Front & Back Panel | The *Synology Disk Station* offers 3 USB ports for adding additional external hard drives, USB printers, |

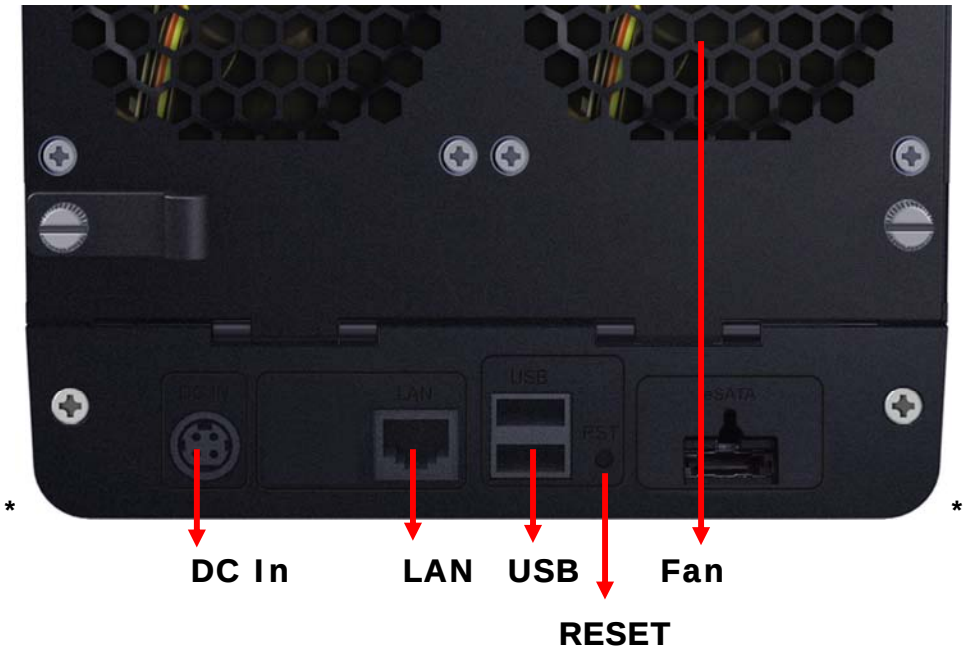
| Article Name | Location | Description |
|---|---|---|
| | | or other USB devices. One at the front, and other two at the back. |
| Smart Fan Ventilation | Back Panel | The fan is built to exhaust waste heat out of *Synology Disk Station*. It will start automatically when the server starts. If the fan is malfunctioning, system will "beep" every 1 second. |
| eSATA Port | Front Panel | The eSATA port is for connecting with an external SATA HDD. |
| RESET Button | Back Panel | 1. To restore IP, DNS, passwords for the "admin" account to default value, and reset the “guest” account to the “enabled” status. (Please refer to “Resetting Administrator Password” chapter.)<br>2. To reinstall the *Synology Disk Station*. (Please refer to “Reinstalling *Synology Disk Station*” chapter.) |
| LAN Port | Back Panel | The LAN port is where you connect RJ-45 cable to *Synology Disk Station*. |
| DC IN 12V Port | Back Panel | The DC IN 12V Port is where you connect the AC Power Adapter. |

## 4-bay Cube/Disk Station

*Front View*



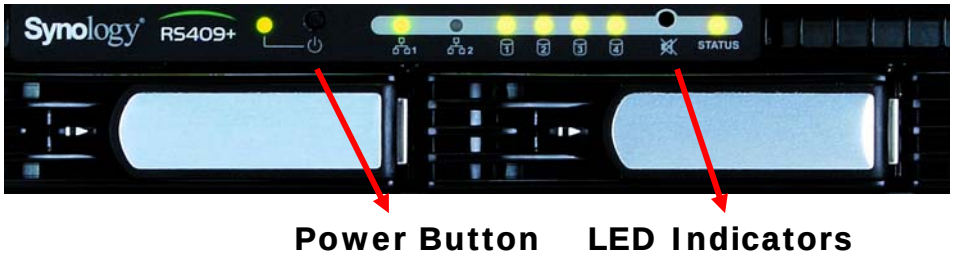
*Rear View*



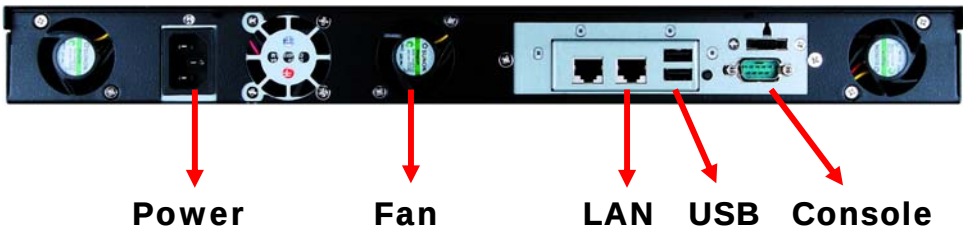

| Article Name | Location | Description |
|---|---|---|
| Power Button | Front Panel | The Power Button is used to turn *Synology Disk Station* on or ff.<br>To turn off *Synology Disk Station*, press the Power Button until you hear a "beep" and the Power LED begins blinking. The shutdown process will complete in 30 seconds. |
| LED Indicators | Front Panel | The LED indicator is used to display the status of the internal disk and the system. |
| USB Port | Back Panel | *Synology Disk Station* offers 2 USB ports for adding additional external hard drives, USB printers, or other USB devices. |
| Fan Ventilation | Back Panel | The fan is built to exhaust waste heat out of *Synology Disk Station*. It will start automatically when the server starts. If the fan is malfunctioning, system will "beep" every 1 second. |
| RESET Button | Back Panel | 1. To restore IP, DNS, passwords for the "admin" account to default value, and reset the “guest” account to the “enabled” status. (Please refer to “Resetting Administrator Password” chapter.)<br>2. To reinstall the *Synology Disk Station*. (Please refer to “Reinstalling *Synology Disk Station*” chapter.) |
| LAN Port | Back Panel | The LAN port is where you connect RJ-45 cable to *Synology Disk Station*. |
| DC IN Port | Back Panel | The DC IN Port is where you connect the AC Power Adapter. |

## 4-bay 1U Rack Station

*Front View*




*Rear View*

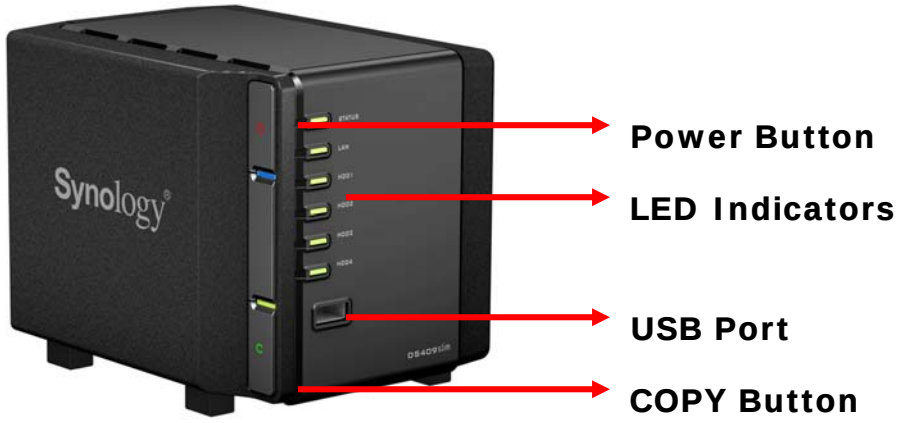



| Article Name | Location | Description |
|---|---|---|
| Power Button | Back Panel | The Power Button is used to turn *Synology Disk Station* on or off.<br>To turn off *Synology Disk Station*, press the Power Button until you hear a "beep" and the Power LED begins blinking. The shutdown process will complete in 30 seconds. |
| LED Indicators | Front Panel | The LED Indicator is used to display the status of the internal disk and the system. |
| USB Port | Back Panel | *Synology Disk Station* offers 2 USB ports for adding additional external hard drives or other USB devices. |
| Fan | Back Panel | There are 3 fans on the back panel. The fans are used to exhaust waste heat out of *Synology Disk Station*. The fans will start automatically when *Synology Disk Station* starts. If the fan is malfunctioning, system will "beep" every 1 second. |
| Console port | Back Panel | The console port is where you connect *Synology Disk Station* directly to a computer. |
| RESET Button | Back Panel | 1. To restore IP, DNS, passwords for the "admin" account to default value, and reset the “guest” account to the “enabled” status. (Please refer to “Resetting Administrator Password” chapter.)<br>2. To reinstall the *Synology Disk Station*. (Please refer to “Reinstalling *Synology Disk Station*” chapter.) |
| LAN Port | Back Panel | The LAN port is where you connect RJ-45 cable to the *Synology Disk Station*. |

| Article Name | Location | Description |
|---|---|---|
| Power Port | Back Panel | The power port is where you connect the AC power cord. |

## DS409slim

*Front View*



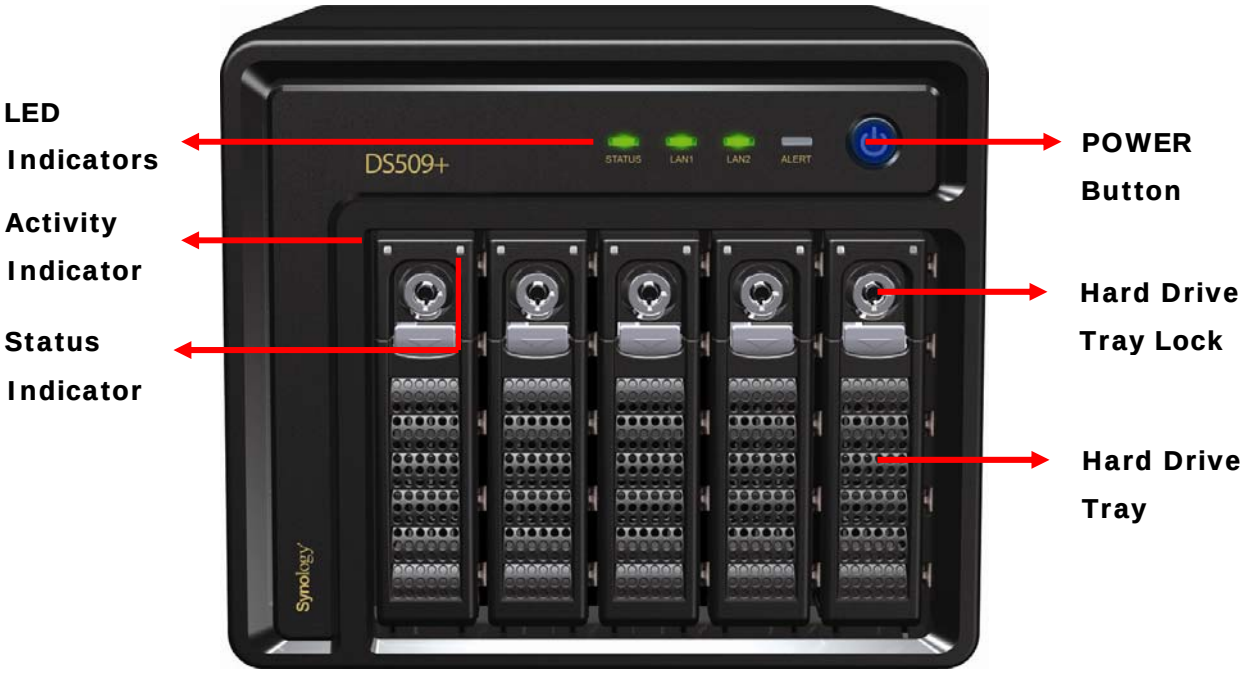

*Rear View*

| Article Name | Location | Description |
|---|---|---|
| Power Button | Front Panel | The Power Button is used to turn *Synology Disk Station* on or off.<br>To turn off *Synology Disk Station*, press the Power Button until you hear a "beep" and the Power LED begins blinking. The shutdown process will complete in 30 seconds. |
| LED Indicators | Front Panel | The LED Indicator is used to display the status of the internal disk and the system. |
| USB Port | Front and Back Panel | *Synology Disk Station* offers 2 USB ports for adding additional external hard drives or other USB devices. |

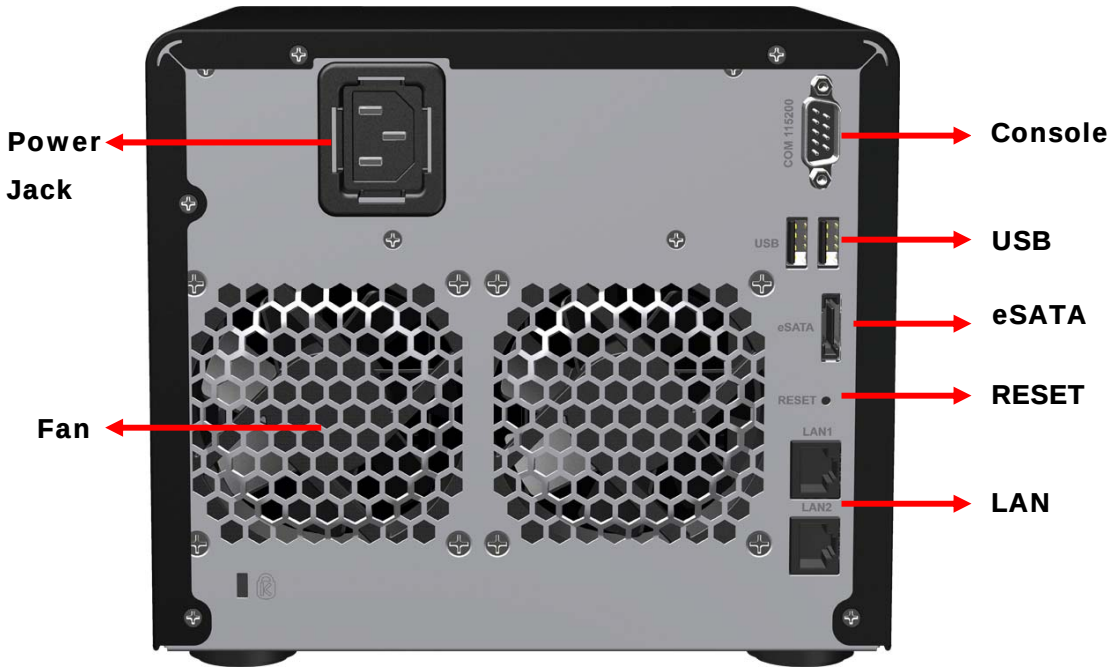
| Article Name | Location | Description |
|---|---|---|
| COPY Button | Front Panel | The COPY Button lights up when you connect a USB Device (for example: digital camera, USB flash disk). Pressing the button will copy the data from the connected USB device to the *Synology Disk Station*'s internal HDD. |
| RESET Button | Back Panel | 1. To restore IP, DNS, passwords for the "admin" account to default value, and reset the “guest” account to the “enabled” status. (Please refer to “Resetting Administrator Password” chapter.)<br>2. To reinstall the *Synology Disk Station*. (Please refer to “Reinstalling *Synology Disk Station*” chapter.) |
| eSATA Port | Back Panel | The eSATA port is for connecting with an external SATA HDD. |
| LAN Port | Back Panel | The LAN port is where you connect RJ-45 cable to the *Synology Disk Station*. |
| Power Port | Back Panel | The power port is where you connect the AC power cord. |

## 5-bay Disk Station

*Front View*




*Rear View*



| Article Name | Location | Description |
|---|---|---|
| Power Button | Front Panel | The Power Button is used to turn *Synology Disk Station* on or off.<br>To turn off *Synology Disk Station*, press the Power Button until you hear a "beep" and the Power LED begins blinking. The shutdown process will complete in 30 seconds. |
| LED Indicator | Front Panel | The LED Indicator is used to display the status of the internal disk and the system. |
| Hard Drive Tray | Front Panel | There are 5 hard drive trays on the front panel. Each tray is designed to hold a hard drive vertically. |
| Hard Drive Tray Lock | Front Panel | Each of the 5 hard drive trays is equipped with one tray lock. Use the tubular key in the package to lock/unlock the trays to the system. |
| USB Port | Back Panel | *Synology Disk Station* offers 2 USB ports for adding additional external hard drives or other USB devices. |
| Fan | Back Panel | There are 2 fans on the back panel. The fans are used to exhaust waste heat out of *Synology Disk Station*. The fans will start automatically when *Synology Disk Station* starts. If the fan is malfunctioning, system will "beep" every 1 second. |
| Console port | Back Panel | The console port is where you connect *Synology Disk Station* directly to a computer. |
| RESET Button | Back Panel | 1. To restore IP, DNS, passwords for the "admin" account to default value, and reset the “guest” account to the “enabled” status. (Please refer to “Resetting Administrator Password” chapter.)<br>2. To reinstall the *Synology Disk Station*. (Please refer to “Reinstalling *Synology Disk Station*” chapter.) |
| LAN Port | Back Panel | There are 2 LAN ports on the back panel. The LAN port is where you connect RJ-45 cable to your *Synology Disk Station*. |
| Power Jack | Back Panel | The power jack is where you connect the AC power cord. |
| eSATA | Back Panel | The eSATA port is for connecting with an external SATA HDD. |

# LED Indications Table

## 1-bay Models

| LED Indication | Color | Status | Description |
|---|---|---|---|
| STATUS | Green | Static | Volume normal |
| | | Off | Hibernation |
| | Orange | Static | Available volume space < 1GB |
| | | Blinking | Volume degraded or crashed<br>No volume |
| LAN | Green | Static | Network is up |
| | | Blinking | Network is active |
| | | Off | Network is down |
| DISK / eSATA | Green | Blinking | Disk is being accessed |
| | | Off | No internal disk |
| USBCopy | Green | Static | USB disk detected |
| | | Blinking | Copying data |
| | | Off | No USB disk attached |
| Power | Blue | Static | System ready |
| | | Blinking | Booting up or<br>Shutting down |
| | | Off | Power off |

## 2-bay Models

| LED Indication | Color | Status | Description |
|---|---|---|---|
| STATUS | Green | Static | Volume normal |
| | | Off | Hibernation |
| | Orange | Static | Available volume space < 1GB |
| | | Blinking | Volume degraded or crashed<br>No volume |
| LAN | Green | Static | Network is up |
| | | Blinking | Network is active |
| | | Off | Network is down |
| DISK / eSATA | Green | Static | Disk is ready and idle |
| | | Blinking | Disk is being accessed |
| | | Off | No internal disk |
| | Orange | Static | Cannot Read/Write |
| USBCopy | Green | Static | USB disk detected |
| | | Blinking | Copying data |
| | | Off | No USB disk attached |
| Power | Blue | Static | System ready |
| | | Blinking | Booting up or<br>Shutting down |
| | | Off | Power off |

## 4-bay Models

| LED Indication | Color | Status | Description |
|---|---|---|---|
| STATUS | Green | Static | Volume normal |
| | | Off | Hibernation |
| | Orange | Static | Available volume space < 1GB |
| | | Blinking | Volume degraded or crashed<br>No volume |
| LAN | Green | Solid | Network is up |
| | | Blinking | Network is active |
| | | Off | Network is down |
| DISK 1~4 | Green | Solid | Disk ready |
| | | Blinking | Disk is being accessed |
| | | Off | No internal disk |
| | Orange | Static | Cannot Read/Write |
| Power | Blue | Static | System ready |
| | | Blinking | Booting up or<br>Shutting down |
| | | Off | Power off |
| RPS-STATUS* | Green | Static | Two redundant power supply are working |
| | | Blinking | 1 RPS not working |

* RS409RP+ only

## 5-bay Models

| LED Indication | Color | Status | Description |
|---|---|---|---|
| STATUS | Green | Solid | Volume Normal |
| | | Off | Hibernation |
| | Orange | Solid | Available volume size < 1GB |
| | | Blinking | Volume degraded or crashed<br>No volume |
| LAN1 & LAN2 | Green | Solid | Network is up |
| | | Blinking | Network is active |
| | | Off | Network is down |
| ALERT | Orange | Blinking | Hardware Error |
| | | Off | System is healthy |
| Power | Blue | Solid | System ready |
| | | Blinking | Booting up<br>Shutting down |
| | | Off | System off |
| Status Indicator (on tray) | Green | Solid | Disk ready |
| | | Off | No disk |
| | Orange | Static | Volume crashed |
| Activity Indicator (on tray) | Green | Blinking | Disk being accessed |
| | | Off | Disk idle |

# Managing Synology Disk Station

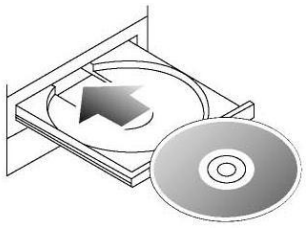
## Entering Web Management UI

System administrator can manage the *Synology Disk Station* by entering the web management UI. There are two options for you to enter the management UI:

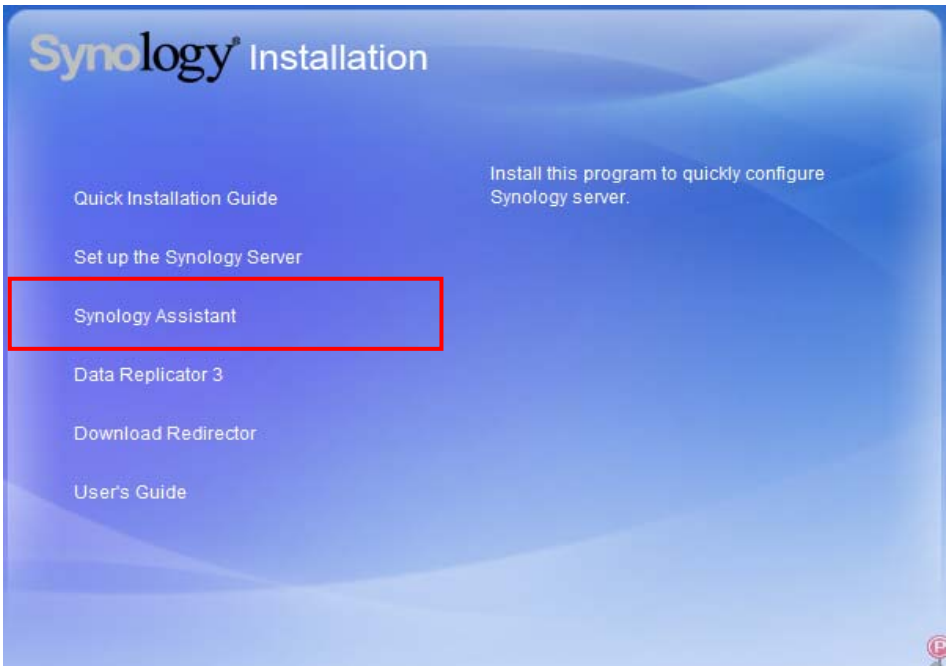
### Using Setup Utility

#### Windows User

1. Insert the Installation CD into CD/DVD-Rom Drive.



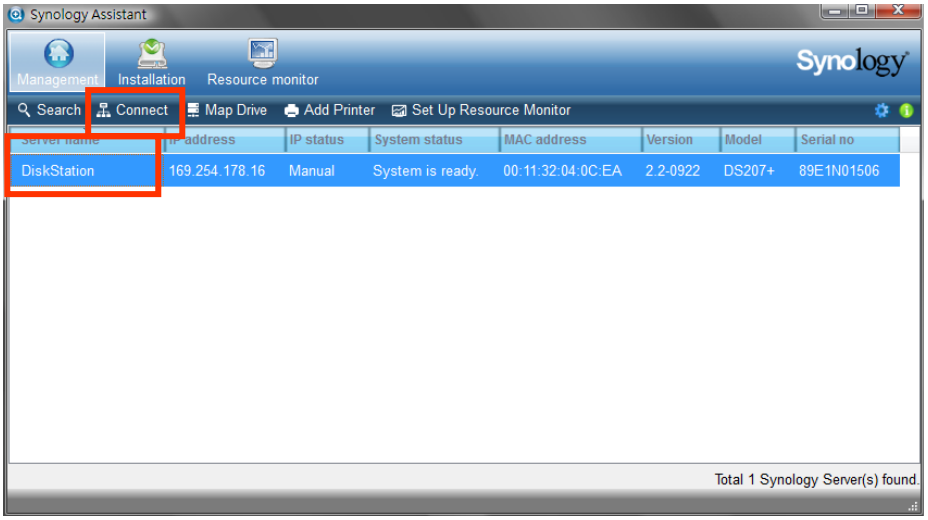
2. Choose “Synology Assistant” on the Autorun Menu.



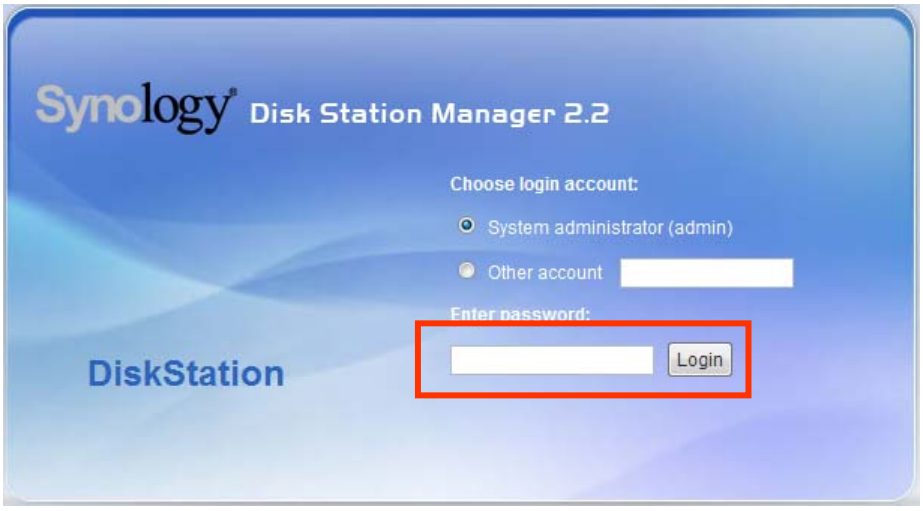

3. Follow the steps to complete installation.

4. After installation, double click on the desktop icon to execute the program.

5. Choose the server you want to manage. Click Connect or double-click the selected server to enter the Web Management UI.




6. Choose “System administrator (admin)”, input password, and click “Login”. The default password is empty.




## Mac OS X User

1. Insert the Installation CD into CD/DVD-Rom Drive.
2. Double-Click CD-Rom Drive thumbnail.
3. Double-Click "MacOSX" thumbnail.
4. Double-Click "Synology Assistant-SYNOLOGY.dmg" thumbnail.
5. Double-Click "Synology Assistant" thumbnail to run setup wizard.

6. Choose a *Synology Disk Station*. Click "Connect" or double-click the selected server to enter the Web Management UI.

7. Choose "System administrator (admin)", input password and click "Enter". The default password is empty.

Please note:

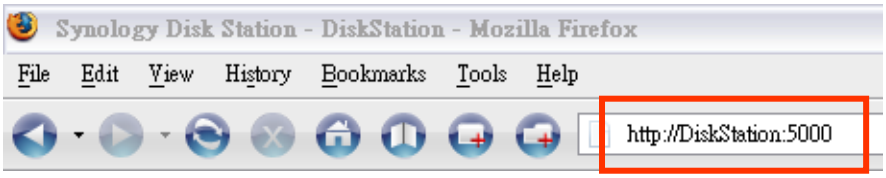
To ensure the process runs smoothly, please use the following browsers:

| Browser | Version |
|---|---|
| The Internet Explorer | 6.0 and onward |
| Firefox | 3.0 and onward |
| Safari (Mac only) | 3.0 and onward |

## Accessing Web Management UI Manually

1. Open a web browser window.

2. At the address line input “http://Synology_Server_Name:5000/", where “Synology_Server_Name” should be replaced with the name you set up for *Synology Disk Station* during the setup process. If you choose "One-step Setup" during the setup process, the "Synology_Server_Name" will be "DiskStation", "CubeStation", or "RackStation".


Synology Disk Station - DiskStation - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://DiskStation:5000

3. Press “Enter” key on the keyboard.

4. Choose "System administrator (admin)".

5. Input password for admin.

6. Click “Enter” to access Web Management UI.

# Managing Synology Disk Station

You can start managing *Synology Disk Station* in Web Management UI. *Synology Disk Station* Web Management UI provides distinctive and straightforward design for easy management. You will find an online “Help” button at the upper right corner of every page of the Web Management UI. Click on the “Help” button for further information whenever you encounter any problem.

To help you further manage *Synology Disk Station*, resource monitor allows you to watch over the CPU usage, memory usage, network flow, and volume usage. With SNMP service, you can now monitor *Synology Disk Station* with network management software.

# Connecting from Two Different Networks*

*Synology Disk Station* supports dual LAN allowing you to connect to the network with two LAN cables at the same time, or to set the *Synology Disk Station* using two IP addresses under different subnets. With Link Aggregation enabled, trunking and network fault tolerances are supported. Please go to the "System > Network" page of the Web Management UI for setup.

# Volume*

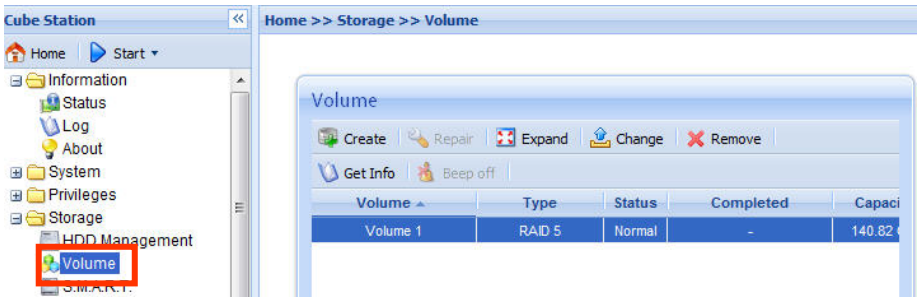
You can combine hard drives on *Synology Disk Station* to create different types of volumes, and find the data protection level of your need. The *Synology Disk Station* provides you various volume types as follows:

| Volume Type | Amount of composed hard drive | Functionality |
|---|---|---|
| Basic | 1 | A Basic (non-RAID) volume must be created with one hard drive as an independent unit. When creating a Basic volume, you can select only one hard drive at a time. |
| JBOD | ≧2 | JBOD is a collection of hard drives. The maximum capacity of a JBOD volume is the total capacity of all hard drives. |
| RAID 0 | ≧2 | Combining multiple disks to build a volume, RAID 0 offers Striping, a process of dividing data into blocks and spreading the data blocks across several hard drives, but without safety measures. |
| RAID 1 | 2 | With RAID 1, one of the composed disks is used for backup purposes. The content of disk A is mirrored to disk B to assure data integrity, so the actual available storage capacity equals to the capacity of one hard drive. |
| RAID 5 | ≧3 | This configuration includes a backup option. It uses parity mode to store redundant data on space equal to the size of one disk for later data recovery. Therefore the actual available storage capacity equals to the capacity of n-1 hard drives. |
| RAID 5+Spare | ≧4 | RAID 5+Spare is a new management mechanism to secure the data. It requires at least four drives to establish a RAID 5+Spare volume, and one will act as a hot Spare drive to rebuild the failed drive of the volume automatically. |
| RAID 6 | ≧4 | This volume type eliminates the risk of volume failure and provides extra data protection. It uses parity mode to store redundant data on space equal to the size of two disks for later data recovery. Therefore the actual available storage capacity equals to the capacity of n-2 hard drives. |

* Supported on specific models only. Please refer to the product Specification table.

## Managing Volume*

You can create, remove, and repair volumes. For the detailed description, please refer to Help on “Storage > Volume” page.




## Repairing Volume by Hot Swapping*

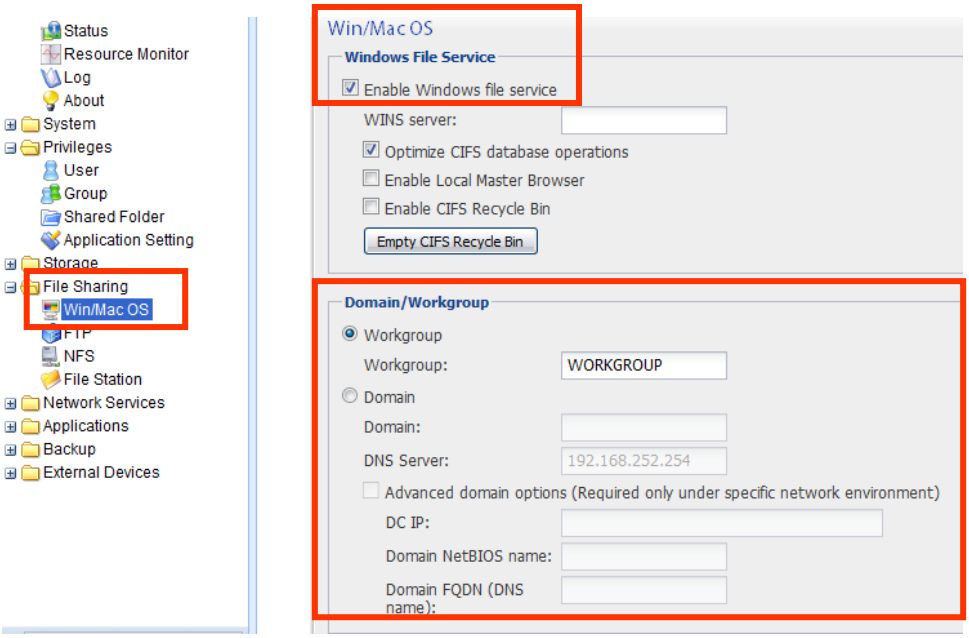
*Synology Disk Station* provides hot swapping function. When you need to replace crashed disks in *Synology Disk Station*, you don’t need to turn off the server. You can refer to the disk status on the management UI, or the front panel LED indicators to identify crashed disks, and directly pull out the hard drive tray to replace the crashed disk with a new one. Then follow the steps on management UI to repair the degraded volume after replacing the hard drive.

# Joining Windows ADS Domain*

You can add *Synology Disk Station* to Windows ADS domain and let the domain users access *Synology Disk Station*. *Synology Disk Station* supports Active Directory Service (ADS) domain. After adding *Synology Disk Station* to a Windows domain, you can go to the "Privileges > Shared Folder" page to assign the domain users’ privileges of shared folders on the server. When domain users access *Synology Disk Station*, they only need to enter their domain account and password for authentication.

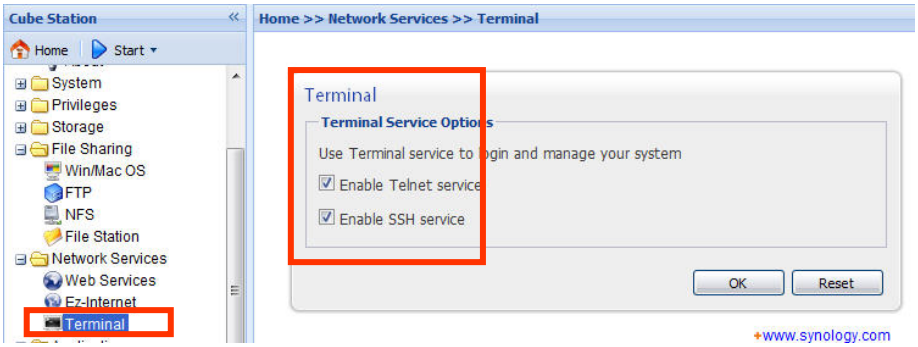
For the detailed description, please refer to Help on “File Sharing > Win/Mac OS” page.

* Supported on specific models only. Please refer to the product Specification table.



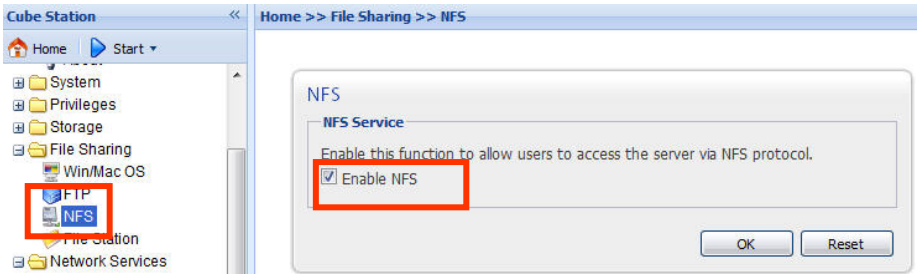

# Accessing Synology Disk Station via Telnet/SSH

To be able to access *Synology Disk Station* via Telnet/SSH, go to "Network Services > Terminal" and enable the terminal service.



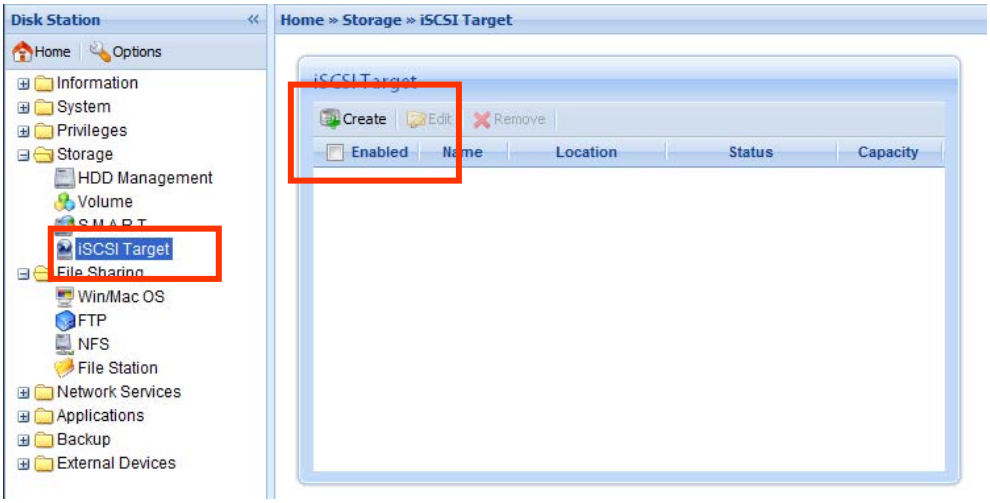

# Accessing Synology Disk Station via NFS

With the built-in NFS option, the administrator can quickly enable NFS and set up privileges on the UI with only a few clicks. Go to “File Sharing > NFS” and check the box to enable this function. Go to “Privileges > Shared Folder” to setup the NFS privileges.



# iSCSI Target*

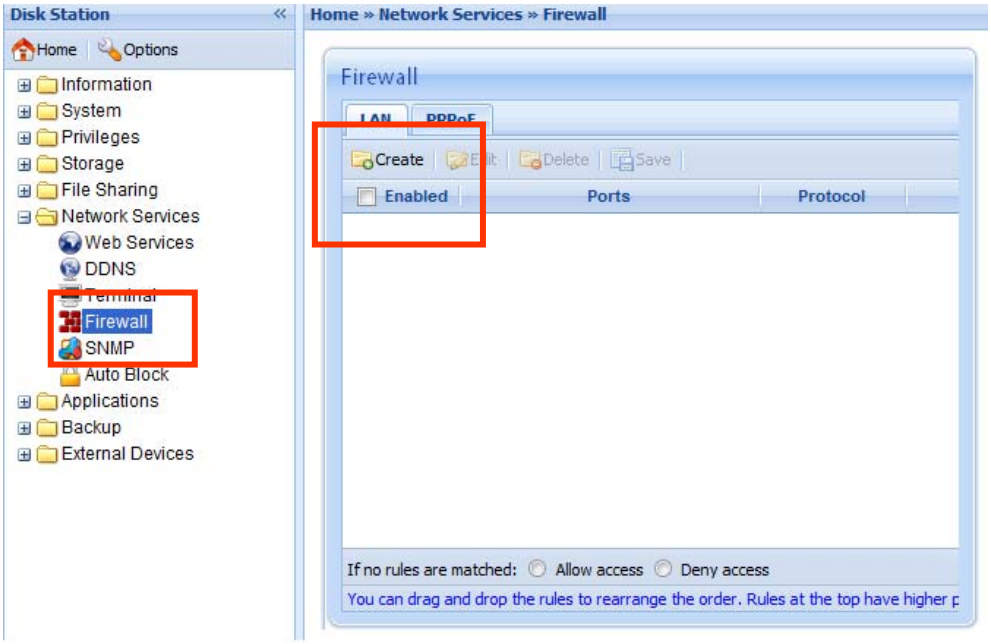
You can designate portion of your volume space to be an iSCSI Target, which will allow clients to access the space like a local disk. Go to “Storage > iSCSI Target” and create an iSCSI target.




# Protecting Synology Disk Station from Unauthorized Login

## Built-in Firewall

The built-in firewall can prevent unauthorized logins and control which services can be accessed. Go to “Network Services > Firewall” to enable and create firewall rules. You can choose to allow or deny some or all IP addresses from accessing some or all network ports.




* Supported on specific models only. Please refer to the product Specification table.

### Auto Block

Auto Block is another method to block unauthorized logins via SSH, Telnet, rsync, FTP, mobile devices, File Station, and management UI. Go to “Network Services > Auto Block” to enable and set up the service so that IP addresses exceeding the specified number of failed login with a time period will be blocked.

## Resetting Administrator Password

Pressing the “RESET” button and holding it for about 4 seconds before you heard a beep sound will restore IP, DNS, passwords for the "admin" account to default value, and reset the “guest” account to the “enabled” status. The default password of the “admin” account is blank.

## Reinstalling Synology Disk Station

If for any reason you have to reinstall the *Synology Disk Station*, you can press the RESET button on the back panel twice, and the *Synology Disk Station* will be reinstalled. The data saved on the *Synology Disk Station* will not be erased during the reinstallation. However, for security’s reason, we strongly recommend that you back up the data on the server.

To reinstall the server:

1. Press the “RESET” button and hold it for about 4 seconds. Release the button when the *Synology Disk Station* emits a beep sound.
2. Within the next 10 seconds, press the “RESET” button and hold it for about 4 seconds again. Release the button when the *Synology Disk Station* emits a beep sound.
3. Run Synology Assistant, and set up the *Synology Disk Station* again.

Note: The version of Synology Assistant should be identical to the version of the firmware patch file you install.

# Accessing Synology Disk Station Data

File sharing service is one of *Synology Disk Station*'s major functions. Administrator can setup access rights for users to access shared folders.

## Shared Folders

### System Built-in

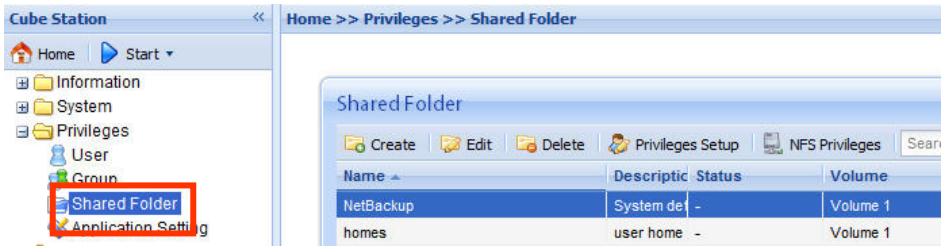
Below are the system built-in shared folders.

| Name | Description |
|---|---|
| public | The "public" shared folder will be created automatically after the first time you set up Synology 1-bay models. |
| web | The shared folder “web” is for storing web pages. When Web Station is enabled, the "web" shared folder will be created automatically. You can upload web pages to the "web" shared folder to build your website. For detailed information, please refer to the “Extra Features > Web Station” section. |
| photo | The shared folder “photo” is for storing images and videos you want to share on Photo Station 3. It will be created automatically when Photo Station or DLNA/UPnP Media Server is enabled.<br>For detailed information, please refer to descriptions of Photo Station 3 and Media Server. |
| music | You can store music files in the “music” shared folder. When iTunes Service is enabled, you can browse the music files on iTunes. For more details on the iTunes Service, refer to the "Extra Features > iTunes Service" section. In addition, when DLNA/UPnP Media Server is enabled, the music can be shared through a DLNA/UPnP device. For detailed information, please refer to descriptions of Media Server. |
| video | Video files in the “video” shared folder can be browsed through DLNA/UPnP DMA when Media Server is enabled. For detailed information, please refer to descriptions of Media Server. |
| surveillance | The shared folder "surveillance" is for storing the video files recorded by Surveillance Station 3. It will be created automatically when Surveillance Station 3 is enabled. This shared folder is read-only and can only be accessed with the "admin" account. For more details, please refer to the "Extra Features > Surveillance Station 3" section. |
| home | The system will create a “home” folder for each user once User Home is enabled. It provides a private space for each user to store data where no other users can access. |
| homes | Once User Home is enabled, admin will be able to see and manage all users’ “home” folders which are under “homes” folder. |
| NetBackup | The shared folder “NetBackup” is for saving backed up files using |

| Name | Description |
|---|---|
| | Network Backup. Please refer to the “Backup > Network Backup" page of the Web Management UI. |
| usbshare | After you connect external USB HDD to *Synology Disk Station*’s USB port, system will automatically create a shared folder with the prefix “usbshare”. Refer to “Expanding Storage Capacity> External HDD” section for details. |
| satashare | After you connect external SATA HDD to *Synology Disk Station*’s eSATA port, system will automatically create a shared folder with the prefix “satashare”. Refer to “Expanding Storage Capacity> External HDD” section for details. |

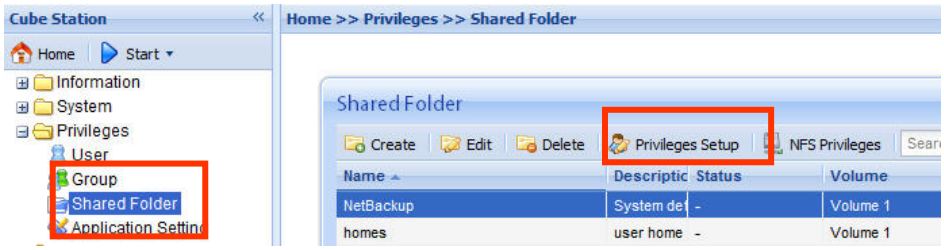
### Administrator-Created

Apart from the above system built-in shared folders, Administrator can create shared folders on the page “Privileges > Shared Folder” of the Web Management UI. Shared folders created by Administrator can be deleted or renamed at any time.

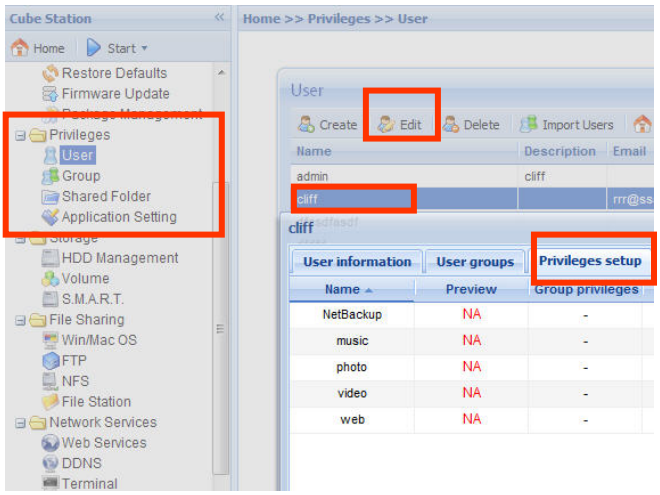



## Setting Privileges

For security reasons, Administrator can go to the “Privileges > Shared Folder” page of the Web Management UI and assign user privileges for accessing the shared folders.




You can also setup each user’s privileges or accessing shared folders by going to “Privileges > User” page. Choose the user account and click “Edit”, and then go to “Privileges setup” to setup the user’s privileges. For the detailed description, please refer to Help on “Privileges > User”.

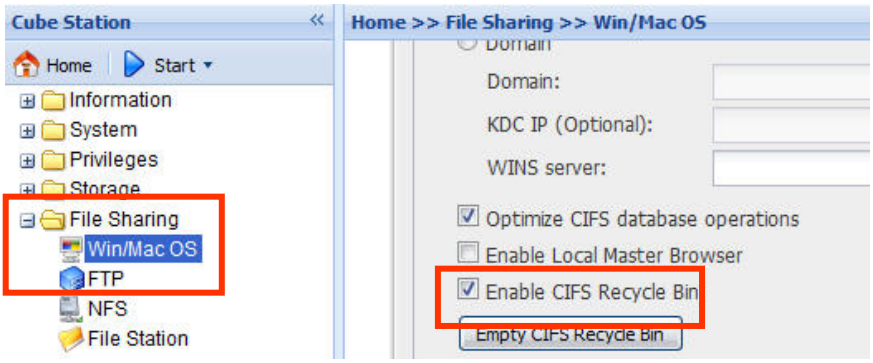



# Using Network Recycle Bin

When users delete files in the shared folders via the SMB/CIFS protocol (ex: on Windows), the deleted files will be moved into the automatically-created folder "#recycle" in the same shared folder to avoid files being unintentionally deleted.

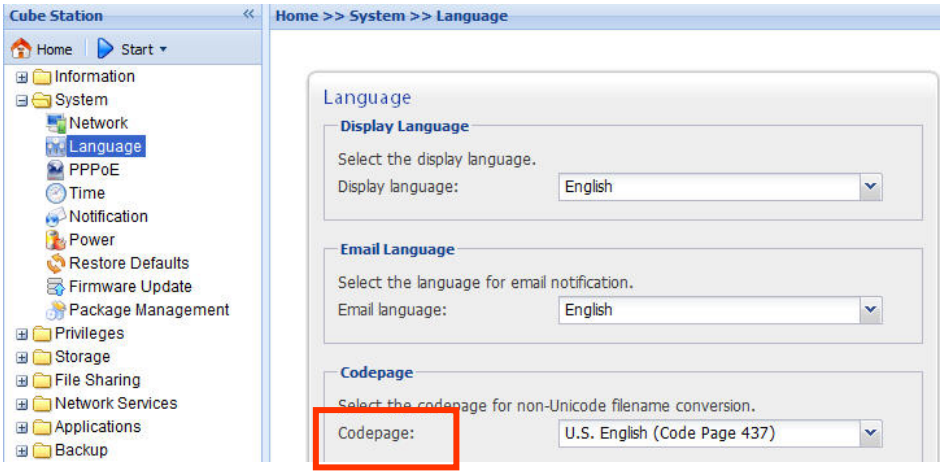
To enable the recycle bins, go to the page “Network Services > Win/Mac OS”, and check the “Enable CIFS Recycle Bin” option.

To permanently deleted files in a shared folder, just delete the “#recycle” folder; to permanently delete files in all shared folder, click the “Empty CIFS Recycle Bin” button.




# Setting Encoding

*Synology Disk Station* uses Unicode to avoid file inaccessibility between users who use different languages. For users without Unicode support on their PC, Administrator can set the Codepage of the files on the “System > Language” page of the Web Management UI to overcome the problem.




# Accessing Shared Folders

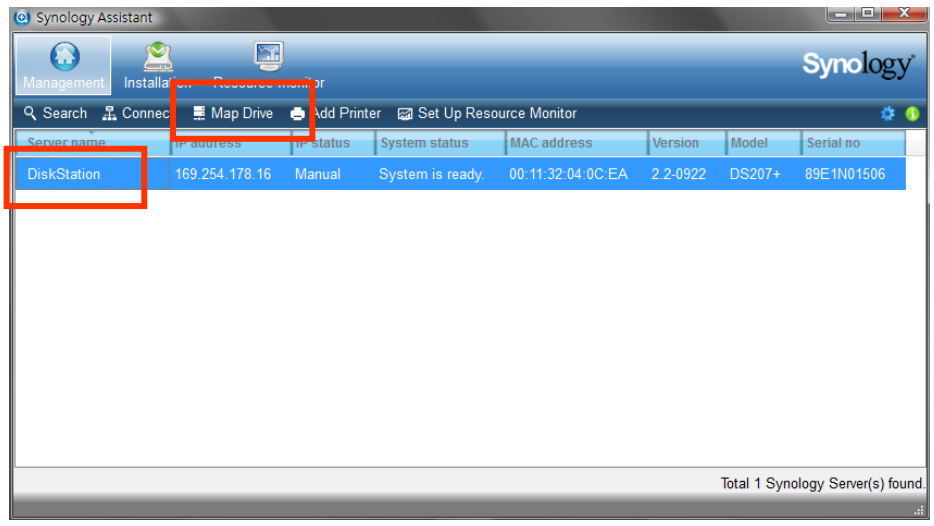
## Within the Intranet

### Windows User

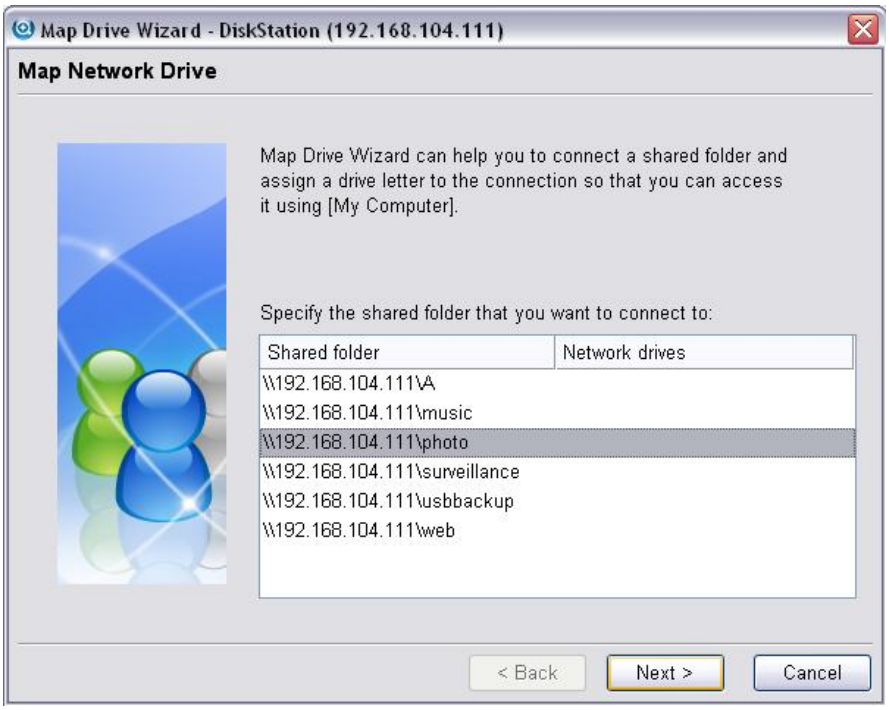
Windows users can access *Synology Disk Station*'s shared folders by using Setup Utility to map Network Drive

Synology Assistant, which is included in the Installation CD, not only helps Administrator manage *Synology Disk Station*, but also provides users with the following steps to map Network Drive:

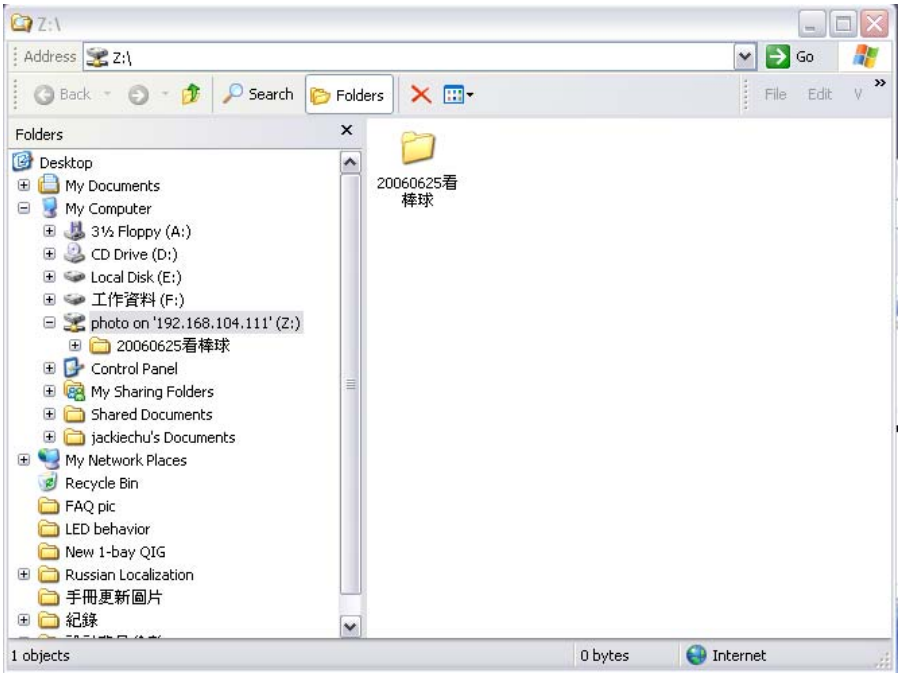
1. Run Synology Assistant.
2. Choose the server to map network drive.
3. Click on the "Map Drive" button.




4. Follow the on-screen steps to finish the setup.

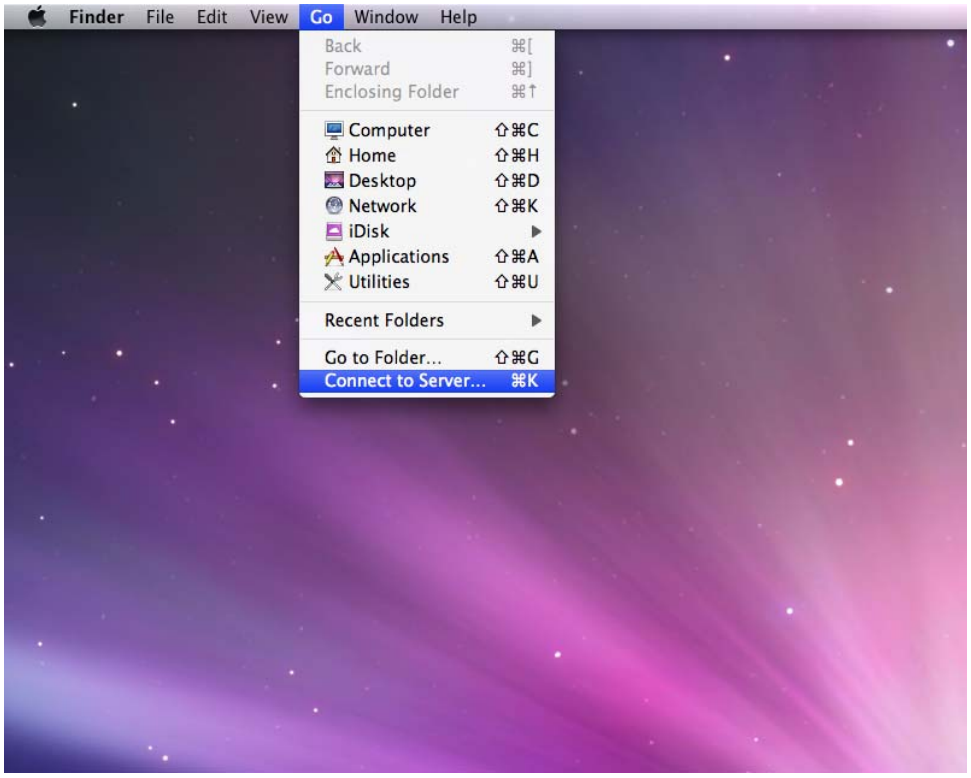

Map Drive Wizard - DiskStation (192.168.104.111)
Map Network Drive
Map Drive Wizard can help you to connect a shared folder and assign a drive letter to the connection so that you can access it using [My Computer].
Specify the shared folder that you want to connect to:
Shared folder
Network drives
\\192.168.104.111\A
\\192.168.104.111\music
\\192.168.104.111\photo
\\192.168.104.111\surveillance
\\192.168.104.111\usbbackup
\\192.168.104.111\web
< Back
Next >
Cancel

5. Upon completion, user can access the mapped shared folder in Windows Explorer.



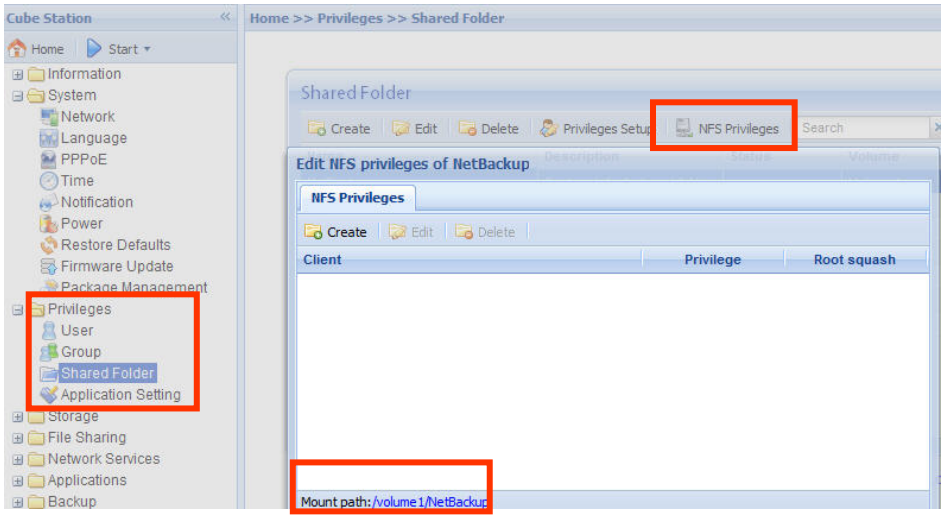
## Mac User

Mac user can use “Go > Connect to Server” and type “smb://server_IP” or “afp://server_IP” to connect to a *Synology Disk Station* and access the shared folder on the server, Connecting through “smb://” is suggested for better performance.




## Linux User

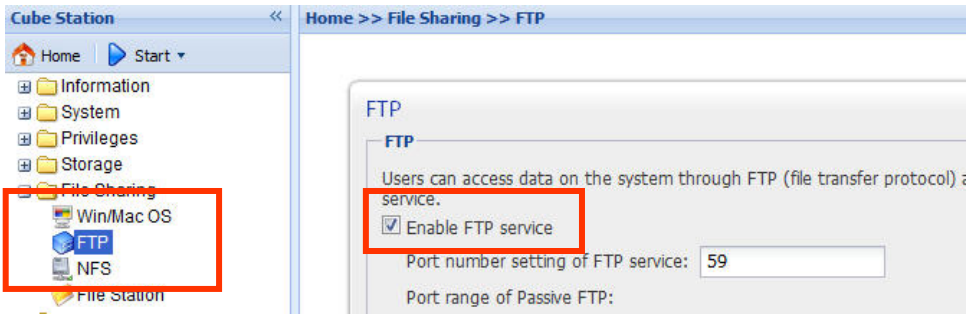
Linux users can mount the shared folders for accessing. Mount path can be found under “Privileges > Shared Folder > NFS Privileges” of the Web Management UI. Before mounting the shared folders, please make sure the NFS service is enabled.



# From the Internet

## Through FTP

*Synology Disk Station* provides FTP service. Administrator can enable FTP service on the “File Sharing > FTP” page of the Web Management UI. Users can thus access data in *Synology Disk Station* by FTP Protocol. *Synology Disk Station* supports secure FTP by default when administrator enables the FTP service. To prevent data from being accessed while transferring, users can also use “FTP over SSL/TLS” on the FTP client to make the data more secure. For detailed information on using FTP and its limitation, please refer to Help on “File Sharing > FTP” page.

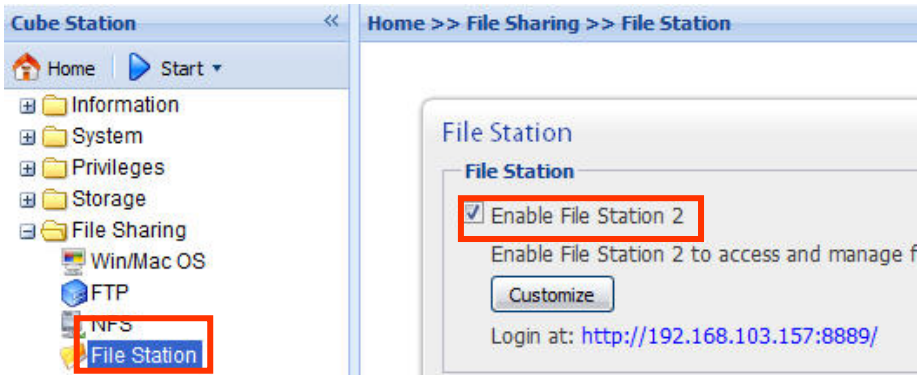



Please note:

Administrator has the option to adjust FTP Bandwidth or enable Anonymous login.

## Through File Station 2

Synology File Station 2 is a web-based file management tool. Administrator can enable File Station 2 service on the “File Sharing > File Station” page of the Web Management UI. Users can thus access or manage data stored on *Synology Disk Station* with browsers. On File Station 2, you can drag-n-drop to move files among folders, and use the right-click action to manage the files. Also, you can upload or download multiple files at the same time. Furthermore, authorized users can assign the privileges of other users to access the folders, sub-folders, and files. For detailed function descriptions, please refer to the online Help in the File Station 2 user interface.




# From a Mobile Device

Mobile device support has been added to allow you to use iPhone OS 2.2.1 onward or Windows Mobile® 6.0 (Internet Explorer® Mobile or Opera® 9.0 and onward) to browse files stored in Files Station and Photo Station.

# Backup Solutions

*Synology Disk Station* provides the following server backup solutions:

1. By using “Local Backup”, Administrator can back up *Synology Disk Station*’s data to external USB or SATA HDD.
2. By using “Network Backup”, Administrator can back up *Synology Disk Station*’s data to another *Synology Disk Station* or an rsync compatible server.

*Synology Disk Station* provides the following personal data backup solutions:

3. By installing Synology Data Replicator 3 software on the client PC, Windows users can back up data from PC to *Synology Disk Station*.
4. By using Time Machine on Mac OS X, Mac users can back up data from their desktop to assigned shared folder on *Synology Disk Station.*

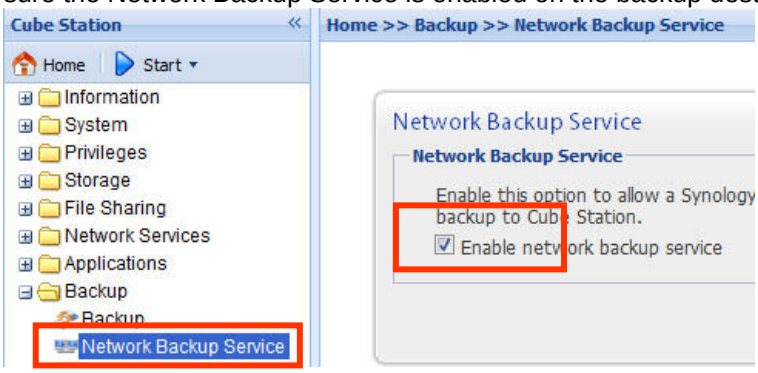
*Synology Disk Station* also allows you to back up system settings.

## Local Backup and Network Backup

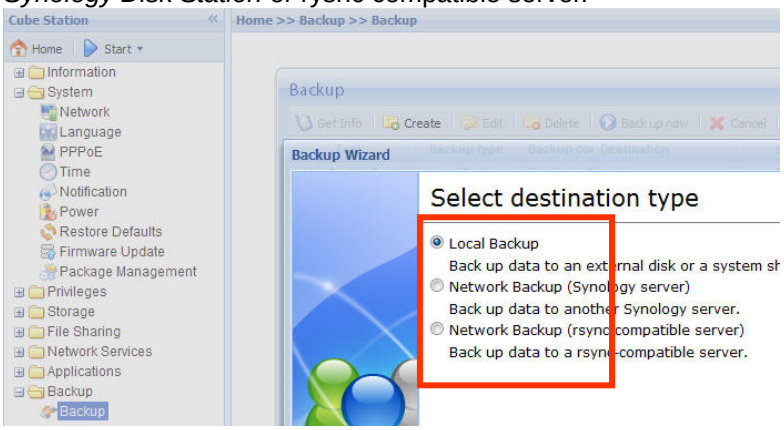
Please follow the below steps to perform Local and Network Backup:

1. Connect an external USB HDD or SATA HDD to the corresponding port on *Synology Disk Station*.
2. Go to the page “External Devices > USB Disk” or “External Devices > eSATA Disk” of the Web Management UI, and format the HDD.

3. If you want to do network backup to another *Synology Disk Station*, make sure the Network Backup Service is enabled on the backup destination.




4. Go to “Backup > Backup” to set up your backup task, When creating a task, you could choose Local Backup, or perform Network Backup to another *Synology Disk Station* or rysnc compatible server.




# Backing up Personal Data

## Windows Users

Windows users can install “Synology Data Replicator 3” backup software which can be found on the installation CD. They can back up client PC data to *Synology Disk Station* to maintain a copy of data whenever needed.

Using Synology Data Replicator 3, users can:

1. Monitor selected folders on client PC and perform real-time backup when any modification to the file is made.
2. Adjust backup versions and restore points.
3. Restore backup data on *Synology Disk Station* to client PC at user’s preference.

### Before starting

Before using Synology Data Replicator 3, please ensure:

1. Client PC and *Synology Disk Station* use the same encoding for backup to perform adequately.
2. Synology Data Replicator 3 is the next generation of Synology Data Replicator. It can only restore the data on *Synology Disk Station* that was

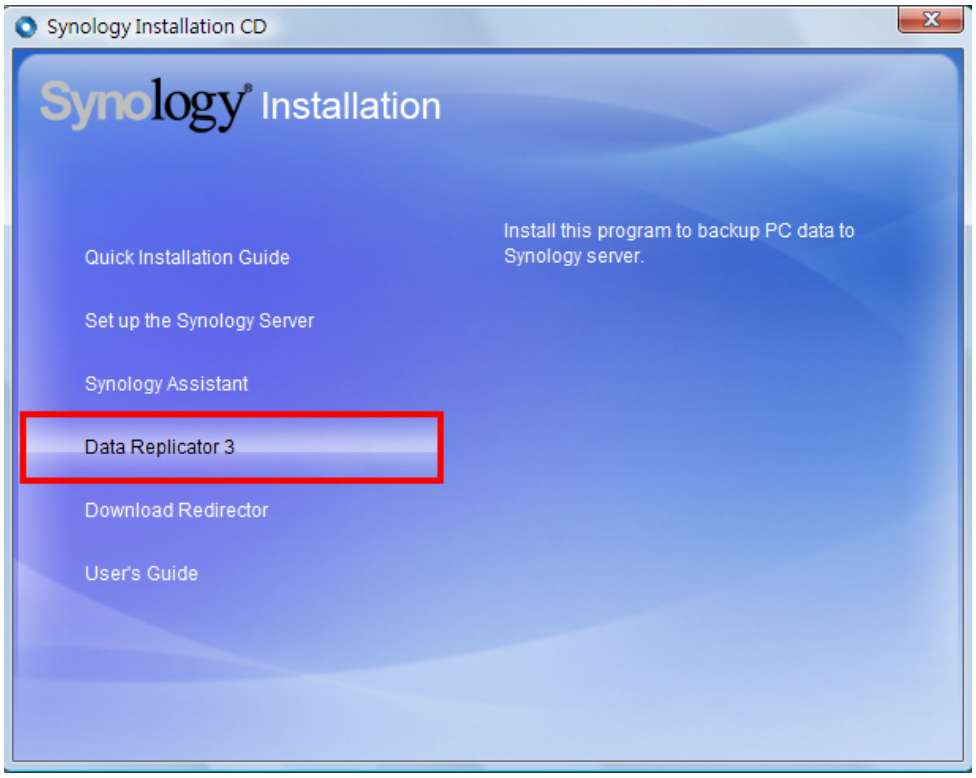
backed up after Data Replicator 3 was installed. If users have backed up data on *Synology Disk Station* using Synology Data Replicator, we recommend restoring data on *Synology Disk Station* to PC first before using Synology Data Replicator 3.

### Minimum System Requirement

1. Free HDD Space: 5MB
2. Operating System: Windows 2000 and onward
3. Best Screen Resolution: 1024*768 and above
4. Microsoft Networking over TCP/IP enabled and has network connection with *Synology Disk Station*.

### Installing Synology Data Replicator 3

Insert Installation CD into Windows user CD/DVD-Rom drive. Click on “Synology Data Replicator 3”, and follow on-screen instructions.




### Using Synology Data Replicator 3

After installation, double click on the software icon to execute the program. Click on “Help” for detail description.

## Mac OS X User

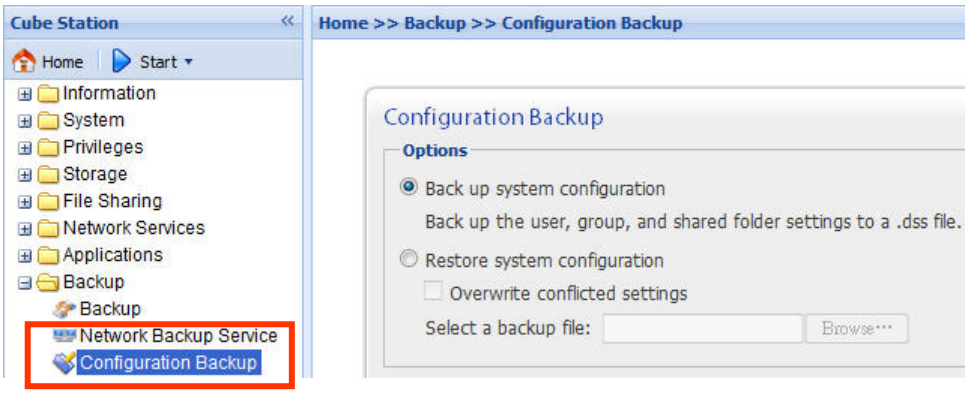
Mac users can use Time Machine to backup personal data to *Synology Disk Station* by enabling AppleTalk and selecting a destination shared folder on the “File Sharing > Win/Mac OS”.

# Backing up Synology Disk Station Settings

There are two options for you to back up *Synology Disk Station*'s "User", "Group", and "Shared Folder" settings for easy maintenance and restoration.

## From Synology Disk Station to PC Client

Go to the page "Backup > Configuration Backup" of the Web Management UI to back up settings from *Synology Disk Station* to PC Client.

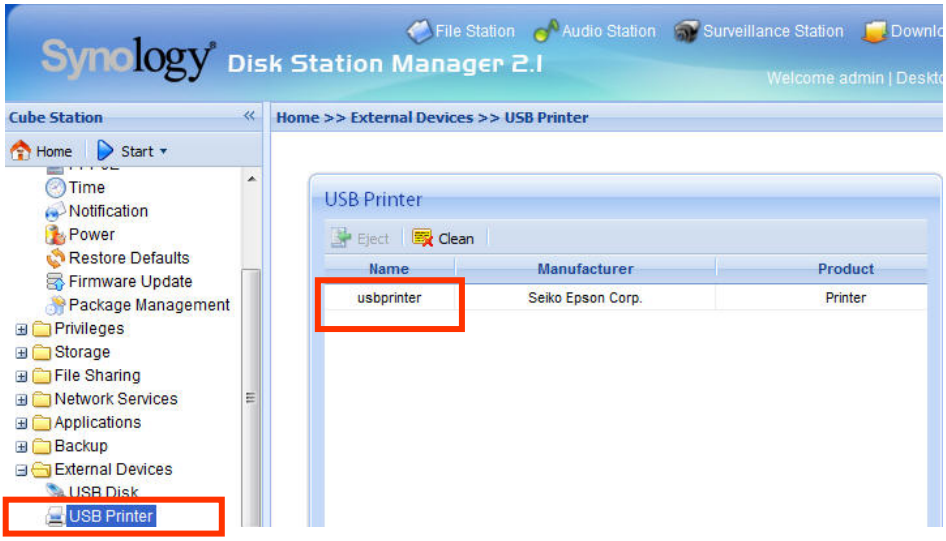



## From Synology Disk Station to another Synology Disk Station

The data backed up to another *Synology Disk Station* or an rsync compatible server using "Network Backup" automatically includes the "User", "Group", "Shared Folder" settings. When you recover the data, you can choose if you want to recover these settings.

# Sharing USB Printers

*Synology Disk Station* helps users to share up to 2 USB Printers. Please refer to Help on the “External Devices > USB Printer” page of the Web Management UI for the detailed settings on different platforms.

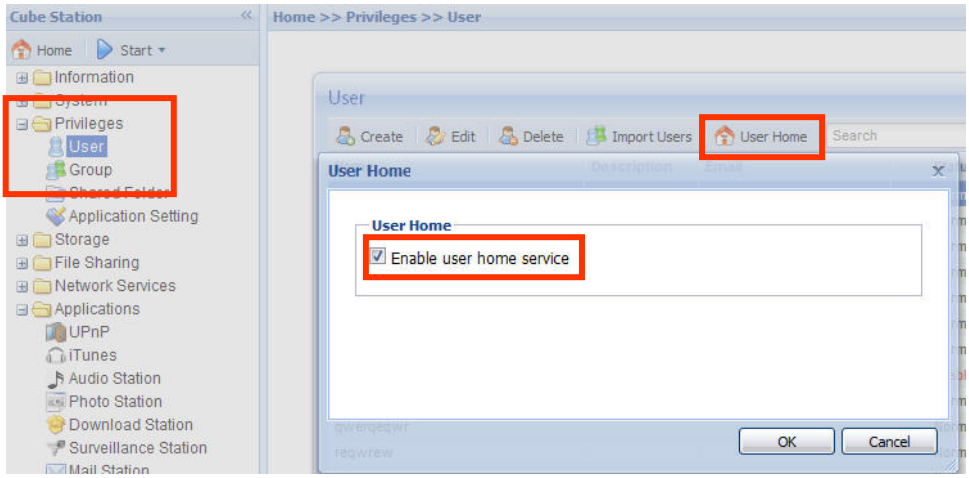


# More Features

## Management

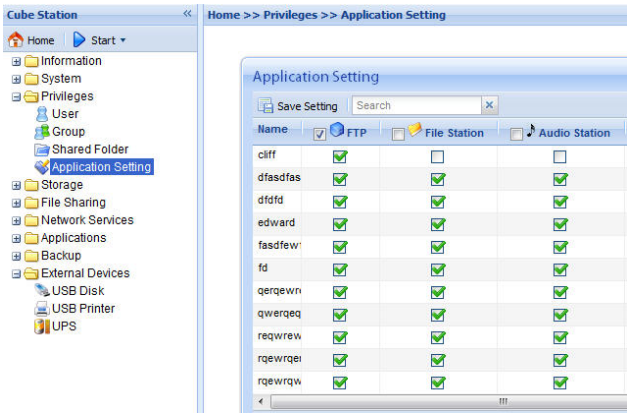
### User Home

When the “User Home” function is enabled, the system will automatically create a “home” folder for each user account, so that users can store data to their own “home” folder.



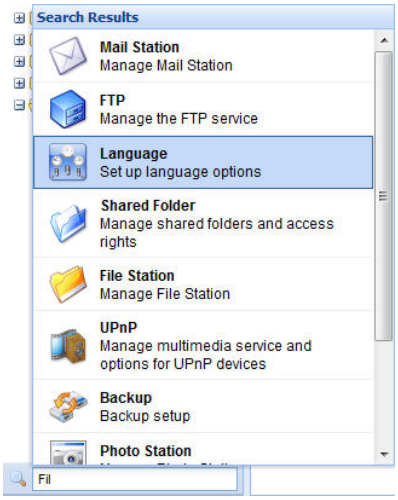

### Applications Privilege Setting

Admin can assign privileges to other users for accessing applications at “Privileges > Application Setting” page.



## Quick Search Box

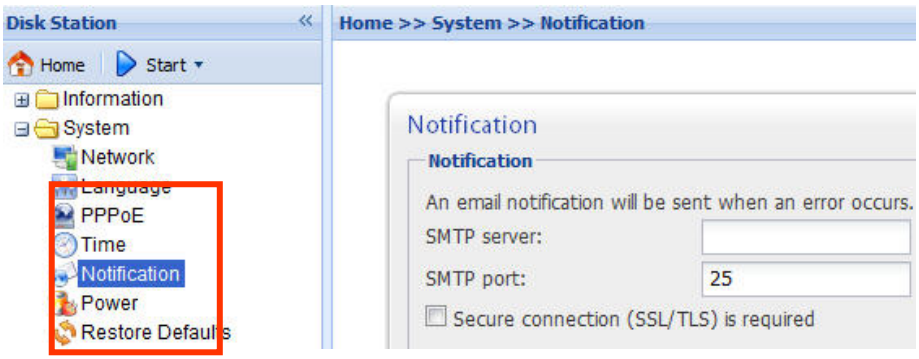
When the Quick Search Box is enabled, it will appear at the bottom of the Panel List. The “search while you type” feature helps you to quickly find the applications you want to manage by entering key words.




## Notification

### Email Notification

Administrator can enter email address and SMTP server information on the page “System > Notification”. *Synology Disk Station* will send email to the address whenever an important event occurs to notify Administrator.

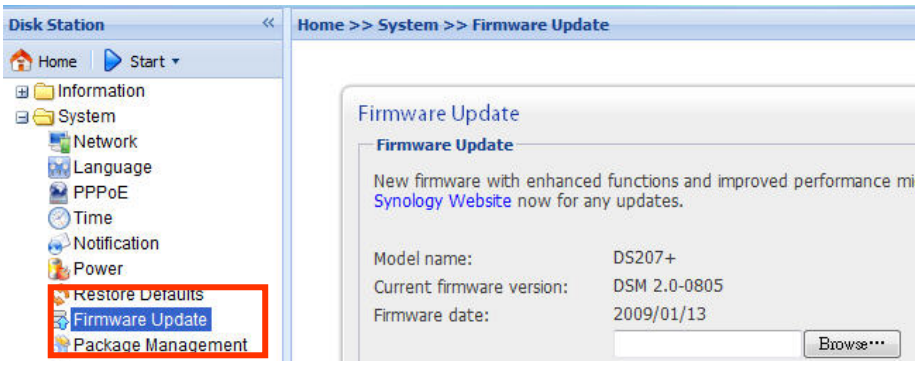



### SMS Notification

If you would like to be notified by SMS, enable SMS notifications and enter information for your preferred SMS service provider.

## Firmware Update

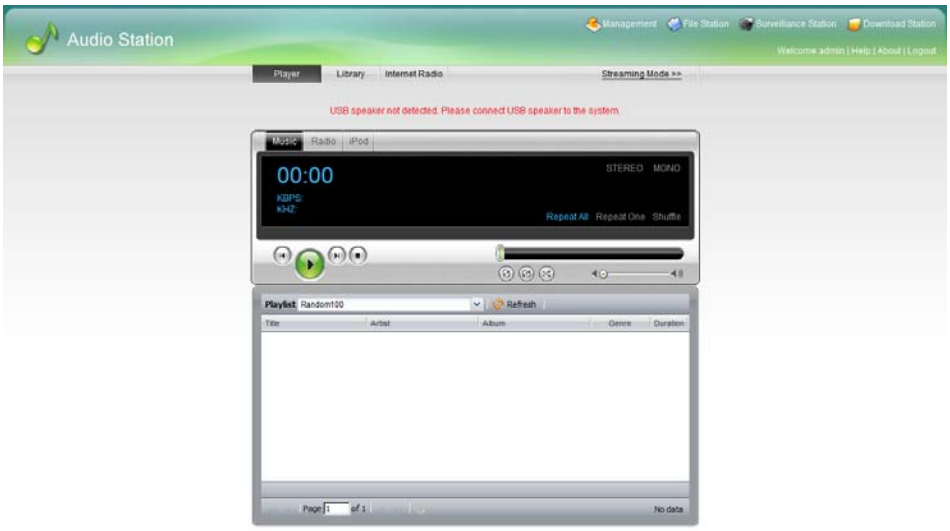
To keep your *Synology Disk Station* up to date, Administrator can go to “System > Firmware Update” page to upgrade firmware.




**Note:** Normally, upgrading the firmware of the *Synology Disk Station* will not affect data on the *Synology Disk Station*. However, to ensure data security, it is recommended that you back up your data before update.

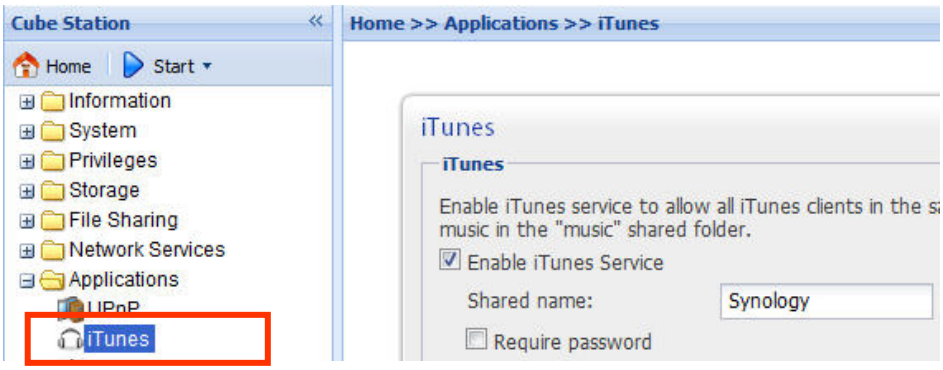
# Audio Station

By connecting a set of verified USB speakers and the Synology Remote receptor to the USB ports on the *Synology Disk Station*, users will be able to enjoy the music stored on the *Synology Disk Station* with the music player in the Audio Station web interface, or by the direction-free remote control. Users can also stream music stored on *Synology Disk Station* to the client PC and have the music delivered by built-in speakers. Besides music on the *Synology Disk Station*, users can listen to the Internet radio stations, or play music from the connected iPod as well. A built-in playlist “Random100” will randomly choose and play 100 songs each time this function is selected. For detailed function descriptions, please refer to the online Help in the Audio Station web interface. DS audio is also available for download on Apple’s App Store to stream the music in Audio Station with your iPhone/iPod touch.




# iTunes Service

When “iTunes Service” is enabled, users can play music files stored on *Synology Disk Station* with any iTunes clients on the same subnet. For the detailed information and its limitation, please refer to Help on “Applications > iTunes” page of the Web Management UI.




# Media Server

Using DLNA/UPnP media server, you can browse the multimedia files stored on the server via a DLNA/UPnP DMA (Digital Media Adapter). After enabling media server on the “Applications > Media Server” page, place the multimedia files in one of the following shared folders: photo, video, or music. You can customize how the files will be organized and displayed on the DMA menu or insert album covers for music files without embedded images. Furthermore, MIME types and transcoders can be enabled to enhance DMA compatibility.

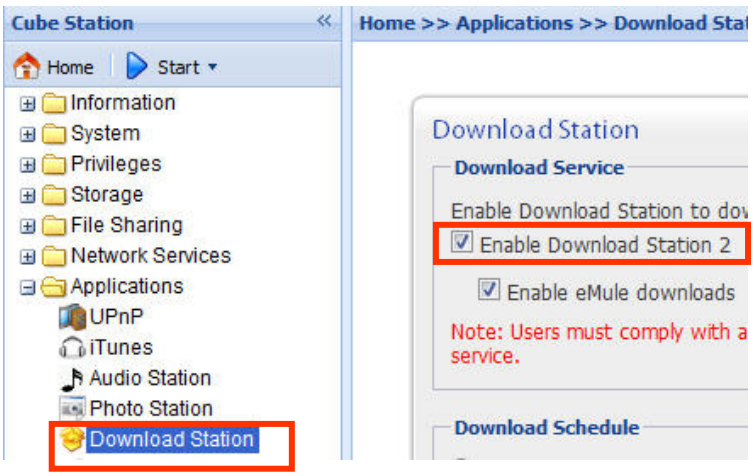
# Download Station 2

*Synology Disk Station* can download files from the Internet through BitTorrent, FTP, HTTP, NZB and eMule. BitTorrent partial file download is also available. E-mail notification upon the download tasks’ completion is optional. PC users and Mac users can either install Download Redirector or log in to the “Download Station” page on the Web Management UI to add download tasks and manage the download queue.

Before you start adding download tasks, you should enable Download Station on the *Synology Disk Station*.

## Enabling Download Station 2

Go to the “Applications > Download Station” page.




### Installing Download Redirector

Insert Installation CD into the CD/DVD-Rom drive. Click on “Download Redirector”, and follow on-screen instructions to complete installation.

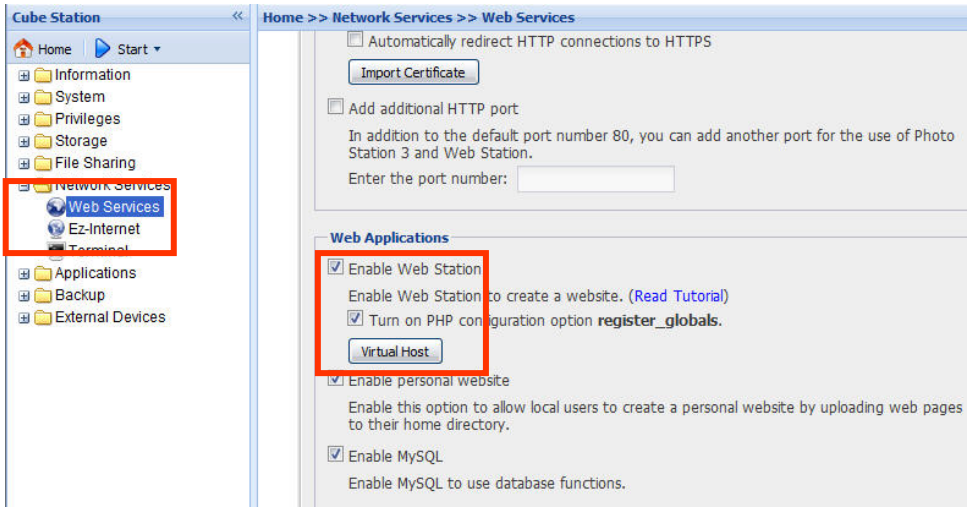
For the detailed description of Download Redirector, please refer to Help on Download Redirector program window.

## Web Station

Personal or corporate website can be easily set up using “Web Station.” By integrating with PHP and MySQL, users can also set up online shop. PHP support is turned on by default, and MySQL needs to be enabled manually. With the Web Station enabled, the Virtual Host support allows you to host up to 30 websites on one *Synology Disk Station*.

## Enabling Web Station and MySQL

Go to the “Network Services > Web Services” page.


Cube Station
Home
Start
Information
System
Privileges
Storage
File Sharing
Web Services
Ez-Internet
Applications
Backup
External Devices
Home >> Network Services >> Web Services
Automatically redirect HTTP connections to HTTPS
Import Certificate
Add additional HTTP port
In addition to the default port number 80, you can add another port for the use of Photo Station 3 and Web Station.
Enter the port number:
Web Applications
Enable Web Station
Enable Web Station to create a website. (Read Tutorial)
Turn on PHP configuration option register_globals.
Virtual Host
Enable personal website
Enable this option to allow local users to create a personal website by uploading web pages to their home directory.
Enable MySQL
Enable MySQL to use database functions.

## Enabling Virtual Host

Go to the “Network Services > Web Services” page, and click on “Virtual Host”.

## Web Station’s detail description

Please click on the “Read Tutorial” link next to “Enable Web Station”.

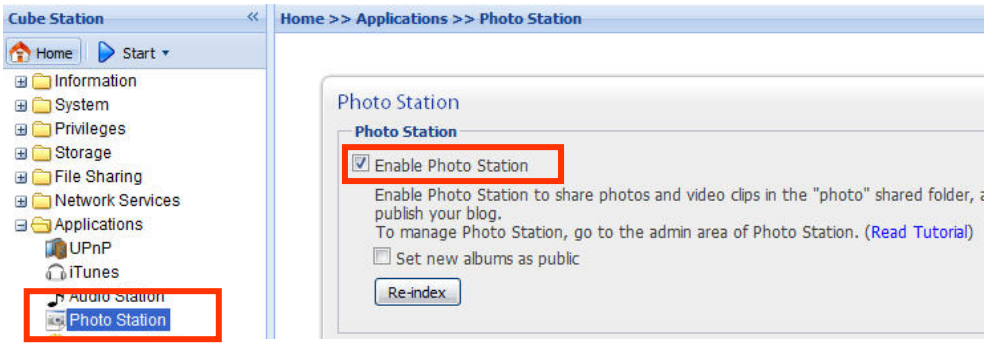
# Photo Station 3

“Photo Station 3” is the new online album function integrating a blogging system. After uploading a folder containing photos and videos to the "photo" shared folder, Photo Station 3 will start to create thumbnails automatically. Administrator can then sign in to Photo Station 3 to manage the album and create blogs. Administrator can customize Photo Station 3 background and theme, and choose the preferred language. Photo Station 3 also provides users with the search function. By entering key words, users can find the relevant photos, videos, and files. You can also click on the arrow for advanced search.

Photo Staion 3 can be accessed on a mobile device with OS 2.2.1 onward or Windows Mobile® 6.0 (Internet Explorer® Mobile or Opera® 9.0 and onward). You can also download DS photo on Apple’s App Store to upload photos stored on their iPhone/iPod Touch to a *Synology Disk Station*.

## Enabling Photo Station 3

Go to the “Applications > Web Services” page.




## Photo Station 3’s detail description

Please click on “Read Tutorial” link next to “Enable Photo Station 3”.

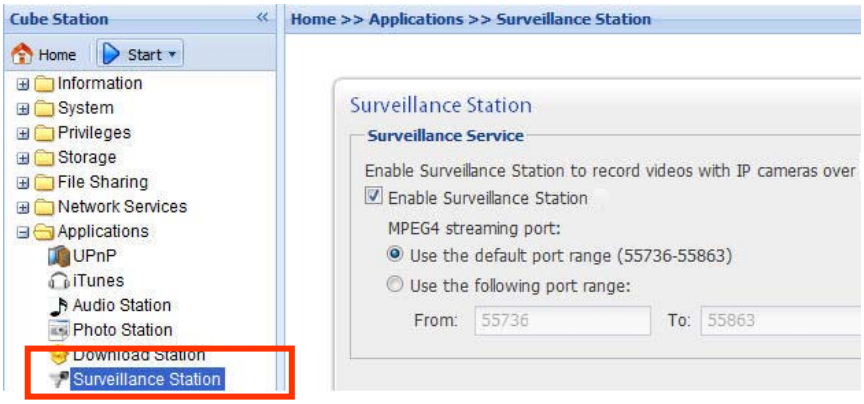
# Surveillance Station 3

By using "Surveillance Station 3", you can monitor the live image of various IP cameras attached on the network, customize video recording options, and choose among Continuous Recording, Motion Detection Recording, and Alarm Recording modes. When playing back the recording events, you can fast forward, slow down, or play up to 4 channels simultaneously. Both M-JPEG video format and MPEG4 format are supported; based on the IP camera’s ability, megapixel video live-view and recording can also be supported. If you record the event with MPEG4 format and the camera supports audio recording function, both sounds and images will be recorded when the system is recording an event. Centralized management allows you to monitor the live-view of IP cameras installed on multiple Disk Stations. SMS notification sends you a notification message when the events you have selected occur.

The supported camera number varies from different models for the best performance. For the supported camera number, please refer to the product specification table.

## Enabling Surveillance Station 3

Go to the "Applications > Surveillance Station" page.



## Surveillance Station 3's detailed description

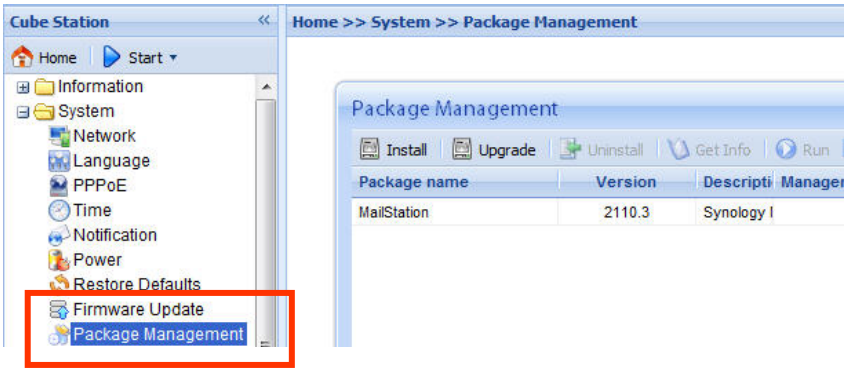
For detailed function descriptions, please click "Help" on the Surveillance Station 3 Web Management UI.

# Mail Station

With the Mail Station add-on, you can turn your *Synology Disk Station* into a mail server to receive and deliver e-mails.

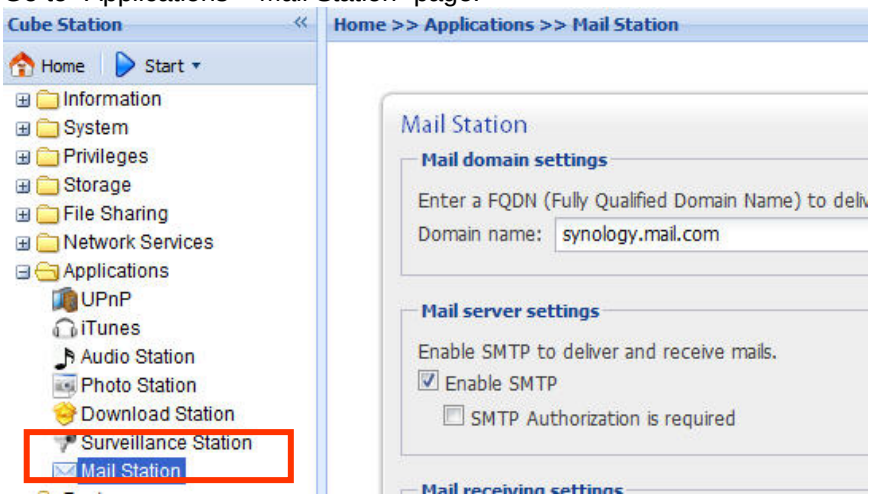
## Mail Station Installation

Go to the "System > Package Management" page and install the Mail Station package which is available on Synology website. For detailed instructions please visit Synology website.




## Mail Station Setting

Go to "Applications > Mail Station" page.




## Mail Station's detailed description

For detailed function descriptions, please click "Help" on the "Applications > Mail Station" page.

# USBCopy*

When a USB Device is connected to the USB port at the front panel, by pressing the “COPY” button all the data in the USB Device will be copied to *Synology Disk Station*’s internal HDD.

## Setting USBCopy Target Location

You can setup USBCopy target location on the “External Devices > USBCopy” page of the Web Management UI, data will be copied to the target location when you press the “Copy” button.

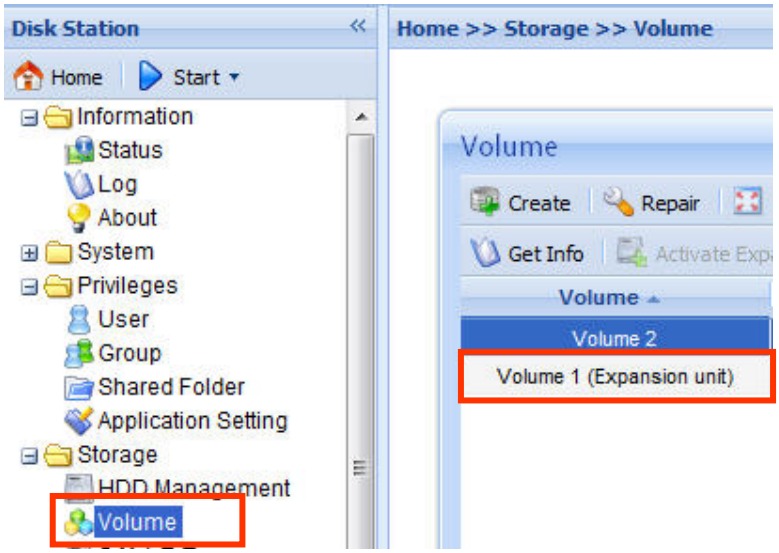
* Supported on specific models only. Please refer to the product Specification table.

# Expanding Storage Capacity

Administrator can expand the storage capacity by connecting external hard drives, replacing the internal hard drive with a larger one, or adding a hard drive to the volume.

## With DX5/ RX4[1]

You can expand the storage capacity of your *Synology Disk Station* by a connecting a DX5/RX4. For detailed function descriptions, please click “Help” on the Volume page.



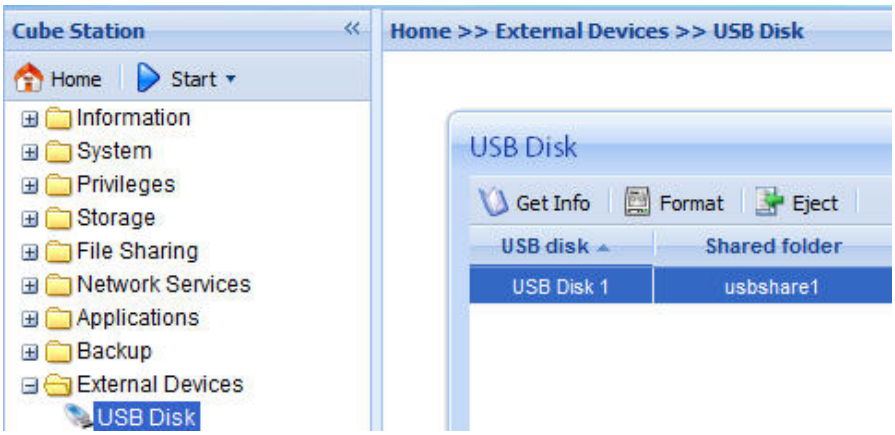

## With External HDD

### External USB HDD

When connecting an external USB HDD to *Synology Disk Station*’s USB port, “usbshare1” shared folder will be created automatically. Upon disconnecting external USB HDD, the shared folder will be removed. When more than 1 external USB HDD is connected, “usbshare2”, “usbshare3” will be created accordingly.

To eject or format external USB HDD, go to the page “External Devices > USB Disk” of the Web Management UI.

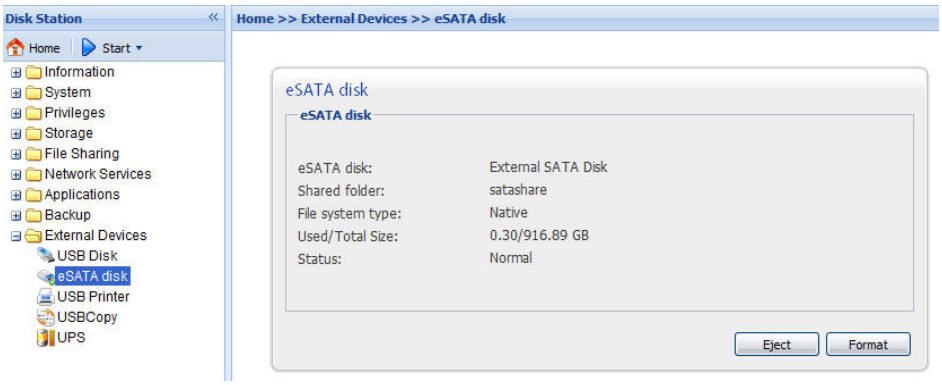
[1] Supported on specific models only. Please refer to http:www.synology.com.




## External SATA HDD*

When connecting an external SATA HDD to *Synology Disk Station*'s eSATA port, "satashare" shared folder will be created automatically. Upon disconnecting External SATA HDD, shared folder will be removed.

To eject or format external SATA HDD, go to the page "External Devices > eSATA Disk" of the Web Management UI.




# Replacing Larger Internal HDD

When the internal HDD storage runs out, Administrator can follow the steps below to replace a larger HDD but keep the original data:

## For one-bay models*

1. Turn off the *Synology Disk Station*.
2. Replace the internal hard drive with a larger one.
3. Turn on the *Synology Disk Station*.
4. Reinstall the system.
5. Connect the replaced hard drive to the USB or eSATA port.
6. Copy the data from the replaced hard drive to the new hard drive.

* Supported on specific models only. Please refer to the product Specification table.

7. Remove the replaced hard drive.

## For Basic or RAID 0 volume on two and more bays models*

1. Back up all data stored on the *Synology Disk Station*.
2. Turn off the *Synology Disk Station*.
3. Replace the internal hard drives with larger ones.
4. Turn on the *Synology Disk Station*
5. Reinstall the system.
6. Copy the backed up data to the new volume.

## For RAID 1 volume on two and more bays models*

1. Turn off the *Synology Disk Station*.
2. Replace the first internal hard drive with a larger hard drive.
3. Turn on the *Synology Disk Station* and rebuild the volume.
4. Repeat step 1 to 3 until all internal hard drives are replaced with larger hard drives.
5. Click the “Expand**”** button to expand the volume size.

p.s. For hot-swappable models, you can perform the above procedures when the model is powered on.

## For RAID 5 or RAID 6 volume on four and more bays models*

1. Turn off the *Synology Disk Station*.
2. Replace the first internal hard drive with a larger hard drive.
3. Turn on the *Synology Disk Station* and rebuild the volume.
4. Repeat step 1 to 3 until all internal hard drives are replaced with larger hard drives.
5. Click the “Expand**”** button to expand the volume size.

p.s. For hot-swappable models, you can perform the above procedures when the model is powered on.

* Supported on specific models only. Please refer to the product Specification table.

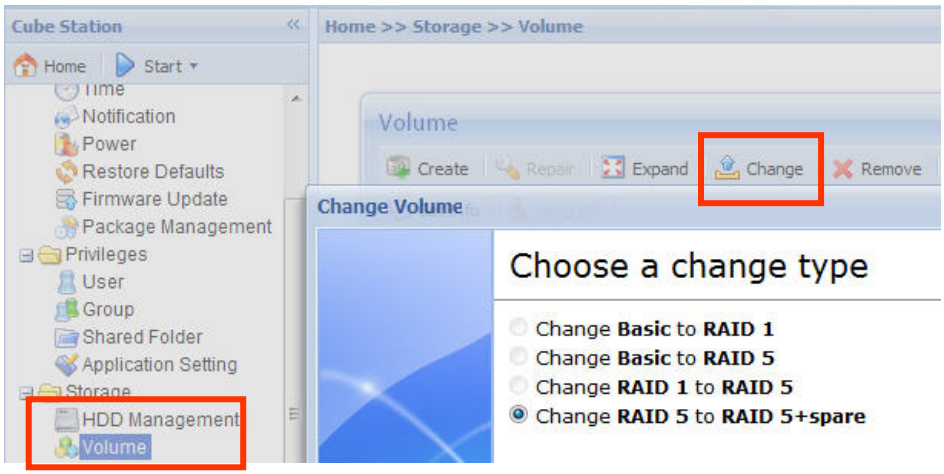
# Adding an HDD to a RAID 5/RAID 6 Volume*

You can expand the storage capacity of the RAID 5/RAID 6 volume by adding a Spare HDD to the RAID 5/RAID 6 volume. Please refer to the online Help on the "Storage > Volume" page of the Web Management UI for detailed instructions.

# Change Volume Type

If you have created a Basic, RAID 1 or RAID 5 volume, you could add a new drive to the *Synology Disk Station*, and then click “Change” on the Volume page to change the volume type. You have following options:

1. Change Basic to RAID 1
2. Change Basic to RAID 5
3. Change RAID 1 to RAID 5
4. Change RAID 5 to RAID 5+Spare




* Supported on specific models only. Please refer to the product Specification table.

# Troubleshooting

For any questions about managing your *Synology Disk Station*, please refer to the “Help” button at every page of the Web Management UI. For any questions other than that, please visit Synology Inc. website (www.synology.com) for further assistance.

# Appendix

## Recommended Peripherals

For recommended peripheral models, including hard drive, USB printer, DMA, and UPS, please visit www.synology.com.

## Recommended NTP Server

The main purpose of Network Time Protocol (NTP) is for synchronizing clocks of computer system over data network. We have provided a few recommended NTP servers. For more information about NTP Server, please visit http://www.eecis.udel.edu/~mills/ntp/servers.html

Below are few recommended NTP servers:

1. time.apple.com
2. time.asia.apple.com
3. time.euro.apple.com
4. time.nist.gov
5. time.windows.com

For more information, please refer to: http://ntp.isc.org/bin/view/Servers/WebHome